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DRUG & CHEMICAL MARKETS

Established 1914

A Weekly Business Paper for Those Who Make, Sell, or Buy
Chemicals, Dyestuffs, Drugs, Essential and Fatty Oils

VOLUME XII,

NEW YORK, APRIL 4, 1923

No. 14

A detailed illustration of a chemical factory. In the foreground, there are several large, dark, cylindrical storage tanks. In the background, there are tall smokestacks emitting thick plumes of smoke into the air. The scene is industrial and somewhat dark, with a focus on the machinery and structures of the factory.

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WORKS OF

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In This Issue { Will Chemicals Banish the Silkworm?
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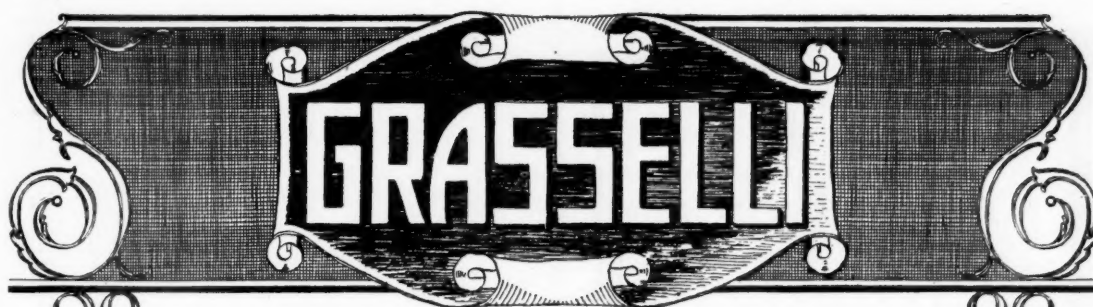
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DRUG & CHEMICAL MARKETS

3 PARK PLACE, NEW YORK

VOLUME XII, NUMBER 14

[APRIL 4, 1923]

FEDERAL SALARIES FOR CHEMISTS

Scientific and professional service in Government departments will receive better compensation than heretofore, when new salary schedules provided in the Sterling Reclassification Act become effective in July of next year. The bill was passed at the recent session of Congress after years of delay because of bitter opposition to any increase in the salaries of chemists and other technically trained. It has been a notorious fact that the most efficient men in Government employ have been forced to seek other positions owing to the inadequate remuneration received, even after years of service and devotion to their work. Many have refused extremely tempting offers from industrial plants and research laboratories, and remained in Government employ in order to finish important work, but were obliged finally to resign in duty to their dependents, and accept positions which assured them a competence for life and opportunity to provide for their families.

Under the Sterling Act professional employees are divided into seven grades. The highest classification is entitled the Special Professional Grade and carries the largest salary paid—\$7,500. The first grade is for junior professionals and the annual compensation is from \$1,860 to \$2,400. The work is performed under the supervision of trained technical men in higher grades. It requires professional, scientific or technical training, but no experience. These positions are attractive to recent graduates of technical schools who desire a certain line of experience, and they can look forward to the increases in salary in the several grades paying \$3,600, \$5,000 and \$6,000. Beyond that grade advancement is slow, as it includes the administrative heads of scientific bureaus, and only special professional service, which is limited, is to receive \$7,500. When a technical man's work is worth more to industrial concerns he resigns, and the Government does not find it easy to fill the place.

NOT CURTAILING NARCOTIC NEEDS

The embargo on the importation of crude opium and coca leaves was raised by the Federal Narcotics Control Board with the provision that manufacturers may import an amount up to July 1 equal to their imports during the corresponding period of 1922. Subsequent importations will be discussed at a conference to be held in July. The decision was reached after a meeting in Washington with importers of crude opium and coca leaves who had made replies to the questionnaire sent out by the Narcotics Control Board asking for detailed statements regarding the importers' requirements. With

this information on file the Board will be able to judge the needs of the manufacturers and take steps to curtail the illegitimate trade due to the smuggling of large quantities from abroad.

The Board is handling the matter with care to avoid crippling the industry that supplies the medical profession and hospitals and has gathered valuable information for use in opening negotiations with foreign countries for a world conference on control of the production and shipment of the raw material. The League of Nations is working on the same problem and an exchange of information between the League and the United States would go far toward tightening the embargo on illegitimate shipments. In Turkey and the Far East the traffic in crude opium is looked upon as legitimate and the only hope of limiting the shipments to Western nations is in an international agreement making seizures lawful under a code somewhat similar to contraband-of-war regulations.

FOREIGN MONOPOLIES IN CHEMICALS

Various branches of the American chemical industry have recommended to the Department of Commerce that a part of the half million dollars appropriated by Congress to investigate foreign monopolies, should be applied in looking into some of the chemical and drug products where worldwide control is concentrated in a foreign monopoly. Some of the products which have been named include quinine, controlled by the Dutch, camphor and menthol, controlled by the Japanese, iodine, controlled by the British syndicate owning the Chili concessions, and others.

Just what an investigation might accomplish, is difficult to see. An American Congress could not change the Dutch quinine monopoly by legislation any more than it could break up the Japanese camphor monopoly. These monopolies are guarded jealously by the syndicates in control and also by the various governments. Neither would brook any interference from the law-making body of the United States, official or otherwise. The monopolies were built up in most instances as a result of persevering efforts, large investments of money, particular natural adaptability of the country in question, and at risk of heavy loss. South America should really own the quinine monopoly to-day, but the industry of the Dutch has made Java pre-eminent as a source of raw material. Many a Japanese has risked his life in the camphor jungles of Formosa and lost. In fact, none of the great chemical monopolies rode to success along a path strewn with roses. Congress may spend many thousands of dollars securing facts which are al-

ready quite commonly known,—it has been done before—but when they get the facts, what are they going to do with them?

If Congress appropriated \$500,000 with the idea of fostering American production of foreign monopolistic items, the project really looks like a useless expenditure of public funds as far as chemicals are concerned. When two or three American manufacturers pleaded for a twenty-five per cent duty on camphor a year or so ago when the Fordney Tariff was being made up, Congress turned them down, and the American synthetic camphor plants, built and ready, were never operated. American potash producers received like treatment, and were not Germany in financial and economic straits today, the Kali Syndikat would close every potash plant in America. In the medicinal chemical industry, it is known that the unsuccessful fight for a duty on quinine has been carried on for twenty-five years. And then, somebody discovered that these among others are foreign monopolies subject to "concentrated control" and should be "investigated." What might have been done successfully through the tariff, is now suggested to be tried by means of "investigation" to the tune of a cold half million.

No meeting of the American Chemical Society has been so reminiscent of the early days of chemical research and industrial chemical development as the present gathering in New Haven. The dedication of Sterling Laboratory at Yale University recalls the names of Benjamin Silliman, friend of Goodyear and other eminent workers, Samuel William Johnson, organizer of the agricultural experiment station movement; J. Willard Gibbs, discoverer of the laws of chemical equilibrium, and Russell H. Chittenden, eminent scientists in the field of nutrition, coincidental with the reunion of chemists from all leading industries in the United States is the announcement that 222 students in chemistry have received degrees from the University, and hold important positions with large manufacturing concerns.

Whether the legislatures of Kansas, W. Virginia, and Pennsylvania are full of women haters, or composed largely of farmers who believe in nature unadorned, is not shown in the legislative manuals of those states, but for some unexplained reason certain members have introduced bills to tax cosmetics to death, forcing up prices, and imposing such onerous duties upon dealers in the way of records and reports that the sales wouldn't pay for the trouble of handling the goods. It is not surprising that the business manager of the American Manufacturers of Toilet Articles has attacked the solons, but the better way to defeat the bills is to send a few boxes of choice cosmetics to the legislators' wives, and then "follow up" the advantage.

French casein factories consume 20,000 quarts of skimmed milk daily. The casein is principally used in the formaldehyde-casein plastic manufacture of horn, bone, ivory substitutes. These uses

and the large consumption of casein in the paper industry have attracted the attention of American dairy experts as affording a market for the by-product of butter-making. All this will be aired when the tariff rates are investigated, and the Tariff Commission even promises some first-hand, new facts from the Argentine, an important source of this product which their agent, F. W. McSparren, is investigating.

The silkworm has worked hard to keep up with the demand for its products, and it is still going strong, but chemicals already are producing fully half as much artificial silk as the total output of natural, and in a few years probably will be in the lead in the silk industry. With chemicals supplying food, wearing apparel, light and heat, why worry about the future?

The increased sales by wholesale concerns over the business of a year ago, increases in freight traffic, and the fact that there is very little unemployment anywhere in the country and in some industrial lines an actual shortage of labor, indicate that the business outlook for 1923 is very promising. But keep your hand on the brake if the speed increases much.

It is not surprising that the German loan failed. A government, as well as an individual, must keep its credit good. The fact that Gutenberg, who invented the art of printing, was a German does not give the Germany of today license to print paper money ad libitum.

Many Men: Many Minds

Prohibition hasn't emptied our jails and enforcement hasn't filled them.—Wall Street Journal.

Only that product, that salesman, that organization will attain the highest degree of success, that blends into a harmonious whole with the others—co-operation.—George Whaley.

Manufacturing ability consists of more than skill in handling inanimate materials. There is a knack in taking care of mechanical processes and finances, according to the markets for things and money.—Editorial from Boston News Bureau.

The industrial development in the United States since 1899 has taken place without increasing the proportion of women and children in industry, says the National Industrial Conference Board, of New York, while the proportion of workers under 16 years of age declined in that time almost 60 per cent.

If one could get people to see that change and progress are not synonymous, it might be possible to get a hearing among those who think destroying old things merely because they are old is improvement; and if these same people could understand that majority rule and democracy are not the same thing, that the tyranny of the majority differs no whit from any other tyranny, we might do something to check the craze for regulation by law of the minutest details of life.—Theodore A. Johnson.

Will Chemicals Eliminate the Silkworm?

Artificial Silk Mounts to 80,000,000 Pounds in Ten Years, Equal to More Than Half the Present Total Production of Natural Silk

DURING the past decade consumption of artificial silk in the United States has increased tremendously, and the industry has grown to such proportions, both here and abroad, that the financial aspects of the industry run into several hundred millions of dollars annually. The world's production of artificial silk is estimated at present at eighty million pounds annually, one-third of which is produced in the United States. Germany and France together produce about one-third, and the remaining third is shared by England, Belgium, Switzerland, Italy, Holland and Poland. The domestic production increased from almost nothing in 1910 to twenty-five million pounds in 1922, about fifty per cent of the consumption of natural silk for the same year.

Artificial silk is essentially a chemical product, though highly developed mechanical processes are necessary in the perfection of the finished article. The idea of making silk by some synthetic process was considered more than 100 years ago, and innumerable efforts were made to produce a fibre which more or less resembled silk. All earlier efforts were based on attempts to transform either albumen or casein into pliable threads, but nothing practical was achieved along these lines. Count Hilaire de Chardonnet, a Frenchman, was the first to produce a synthetic fibre which could be used in the textile industry.

Chardonnet had spent many years in the study of the life, habits and secretions of the silkworm. His investigations were most thorough and included the chemical analysis of the worm in the various stages of its growth. Even the trunks of the trees on the leaves of which the silkworm feeds were carefully studied. Having learned exactly the constituents of the silk fibre, chemically speaking, Chardonnet undertook to produce a corresponding synthetic fibre. In 1884 he produced his first fibre, using pulp obtained from grinding the trunk and limbs of the mulberry tree, but it was not until five years later that he exhibited his product publicly. Two years later, in 1891, Chardonnet organized a company and began the manufacturing of "artificial silk" in a small town in Northeastern France. His process was successful and continued to operate until 1914, when the French Government took over the plant for the manufacture of guncotton.

After the feasibility of making a synthetic fibre had been demonstrated, other processes were developed in Germany and England. At present four processes, the nitrocellulose, cuprammonium, viscose, and cellulose acetate, are in use, the history and development of which is another story of the part chemistry and chemicals have played in adding to the needs and comforts of man. The principle in all cases is essentially the

Twenty-five million pounds of artificial silk a year are produced in America. Add to this a quantity of imported fibre which comes in from Europe, and it brings the yearly American consumption close to thirty million pounds. This is more than half of the fifty million pounds of natural silk used here each year.

In ten years—the industry here amounted to little prior to 1912—the production of fibre silk has risen from about one million pounds to twenty-five million pounds. At the same time, the world's total production of artificial silk has jumped to eighty million pounds per year, of which the four American makers produce one-third.

The rise of artificial silk has been coincident with the expansion of chemistry during the past twenty-five years. The 80,000,000 pounds a year represent a triumph of chemistry in the textile field—the commercial production of a purely chemical textile fibre.

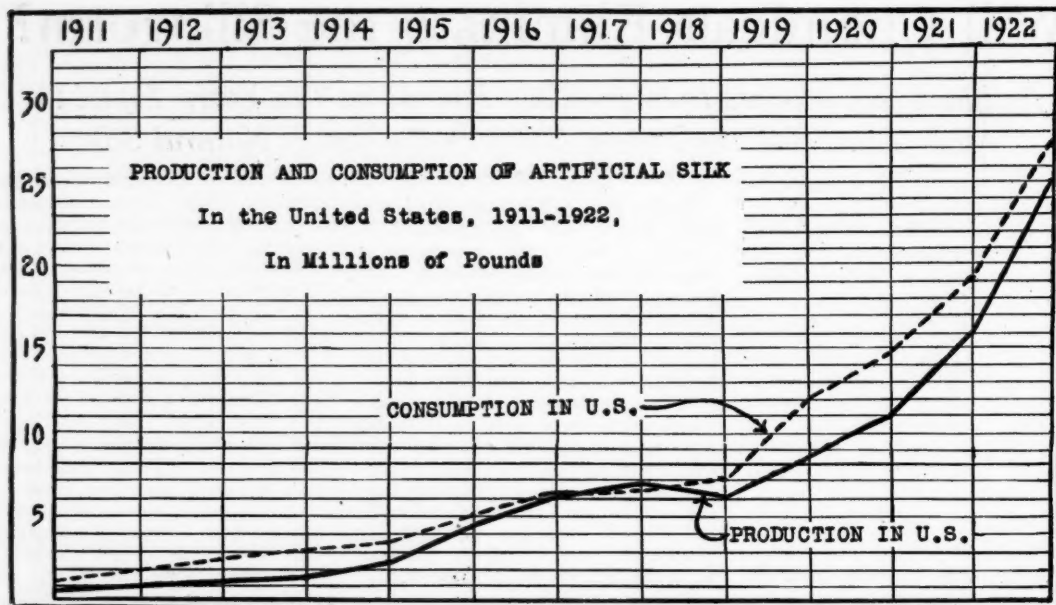
same, that of forcing a viscous solution through minute capillaries and hardening the resulting filament by drying or chemical means. While the raw material is primarily cellulose in all cases, in two of the processes it is changed into a chemical derivative of cellulose which is afterward decomposed in the process of manufacture, yielding ultimately a filament of pure cellulose.

Chardonnet's or the nitrocellulose process, originally used wood pulp obtained from the mulberry tree, but now pure cellulose, obtained from cotton fibres which have been thoroughly cleansed with caustic soda and bleach, are used. The first steps in the process are the same as in the manufacture of smokeless powder. The cotton is nitrated with a mixture of nitric and sulfuric acids, forming guncotton or nitrocellulose. After being thoroughly washed free from acid, the nitrocellulose is pressed into cakes containing approximately 36 per cent water. The solution of

this is then effected by an equal mixture of 95 per cent alcohol and ether, using about two parts of solvent to one part of dry nitrocellulose, forming a viscid liquid known as "collodion." The fibre is obtained by forcing the collodion through minute openings in a "spinnaret" into filaments which pass through warm air, volatilizing the alcohol and ether, and drying the thread. The filament is denitrated by the action of sodium sulphhydrate or sodium sulfide, and after a bleaching process is washed, dried and spun as a filament of pure cellulose.

In the cuprammonium process, the material which is forced through the spinnaret is cellulose in an ammoniacal copper oxide solution. The filament is delivered into a solution of caustic soda to liberate the ammonia and copper, or glucose may be added to precipitate the copper as cuprous oxide. Originally, Pauly, in 1897, used sulfuric acid as the precipitation bath, but the caustic precipitation bath has a mercerizing effect, giving the filament a better lustre, greater strength and elasticity. Dilute sulfuric acid is used to remove the remaining copper and soda.

The process by which the greatest amount of artificial silk is made, known as the viscose process, was first disclosed in 1903 by Stearn, an Englishman, though Cross, Beran and Beadle had discovered the principle used in the process ten years earlier. In this process, a very pure grade of sulfite spruce wood pulp is used as the raw material. After being mercerized with a solution of caustic soda, the pulp is treated with carbon bisulfide, which converts it into a water soluble cellulose xenathogenate which, when forced into a solution of ammonium chloride or sodium bisulfite, is decomposed with the liberation of carbon bisulfide and leaving behind a filament of pure cellulose. The spin-



ning is much the same in all processes and is mainly a mechanical operation.

Cellulose acetate, which soon is expected to be competing with other artificial silks, is prepared by the acetylation of cellulose with acetic anhydride or glacial acetic acid. A solution of the cellulose acetate in ethyl acetate or chloroform is forced through the spinneret into some solution which dissolves out of the solvent without attacking the cellulose acetate, such as petroleum hydrocarbons, camphor oil, and turpentine. Or the filament may be forced through the capillaries into rooms heated above the boiling point of the solvent when the cellulose acetate solidifies into a thread and may be directly wound off, the solvent being recovered and utilized again.

These chemical processes and the mechanical operations used in manufacture of artificial silk have been developed to produce threads ranging in quality from heavy silk monofilaments, known as horsehair, to the fine pliable filament threads which rival natural silk in softness, lustre and touch. These threads can be made of filaments continuous and unbroken in length for thousands of yards, or they can be made of short staple fibres giving the threads the characteristics of cotton or wool. They can be made rough and dull or smooth and lustrous. In fact, the possibilities for variation are infinite and have only just begun to be investigated.

Artificial silk has come to be recognized as a raw material and in a class with other vegetable and animal fibres. The early difficulties encountered in the weaving and dyeing of this material have been overcome and it is now playing an important part in the textile industry.

Four companies are now engaged in the manufacture of artificial silk in the United States, three of which are using the viscose process, and one the nitrocellulose. The Viscose Company, which is the largest producer, the DuPont Fibresilk, and Industrial Fibresilk use the viscose process. The Tubize Artificial Silk Co. of America uses the nitrocellulose process. Two additional plants are in the process of construction, one to use the cuprammonium and the other the cellulose acetate method.

WATER POWER ACT HALTS FORD PLAN

With adjournment of Congress, the Ford offer for Muscle Shoals lapsed. Work on the Wilson dam, however, goes on, under appropriations from the Government. The most effective opponents of the Ford offer have been the members of the committee for the defense of the federal water power act, including former Secretaries of War Garrison, Stimson and Baker, former Secretaries of the Interior Garfield and Fisher, former Secretaries of Agriculture Meredith and Houston, Governors Parker of Louisiana, Dixon of Montana, Pinchot of Pennsylvania, former Governors Allen of Kansas, Pardee of California, Herbert Knox Smith, former United States Commissioner of Corporations.

This group contended it was not necessary to repeal the safeguards embodied in the federal water power act to make certain the development of Muscle Shoals. They pointed out that since the enactment of the federal water power act, in 1920, applications have been filed for the development of 20,000,000 horsepower under terms and conditions that safeguard the rights of the public while at the same time protecting private capital.

FIND WAYS TO CHECK TRADE DECLINE

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., April 4.—The Business Cycle Committee which was appointed more than a year ago by Secretary Hoover as chairman of the President's Conference on Unemployment, has just made its recommendations in which it says in regard to times of depression:

"The methods of reducing the extent of the decline lie in the building up of governmental and public utility construction in times of depression, the use of unemployment funds, and the expansion of the Federal, State and farm employment bureaus. The better control of credit against over expansion and speculation through individual banks and the guidance of business itself by danger signals of over expansion are fundamental."

Trade Notes and Personals

The American Leather Chemists Association will hold its twentieth annual convention at the Greenbrier, White Sulphur Springs, W. Va., June 7, 8 and 9.

Caustic soda and other caustic preparations will be sold for household use under official regulation, if a bill recently introduced in the Kansas House of Representatives is passed.

Willis H. Booth, vice-president of Guaranty Trust Co., who has been elected president of the International Chamber of Commerce convened in Rome, is a director in the Sierra Talc Co.

The Chicago Drug and Chemical Association has appointed Clarence Morgan chairman of a committee for the continuation of the work undertaken by the Association for Near East Relief.

The National Lime Association will hold its fifth annual convention at the Hotel Commodore, June 13-15. Reports will be given by technical men of the research department and by field engineers.

Henry Nelson Moore, formerly of the chemical brokerage business of that name, has become associated with Thomas K. Stewart, New York fertilizer house, in charge of the industrial chemical section.

The temporary injunction obtained by the Allied Chemical and Dye Corp., restraining the sale of the Steel and Tube Co. of America, in which the Allied Chemical and Dye Corp. holds 20 per cent interest, was continued, last week, by Chancellor Wolcott, at Wilmington, Del.

A mid-year safety conference has been called by the Engineering Section of the National Safety Council, at Chicago, Ill., April 17, in the auditorium of the Western Society of Engineers, 53 W. Jackson Blvd. Handling material, dust and fume hazards, and traffic safety are the three main topics on the program.

China's imports of matches from Japan have rapidly shrunk during the last ten years, according to Trade Commissioner Lansing W. Hoyt, Shanghai. This shrinkage is due primarily to the increase in match production in China and to the effect that for a long time the whole eastern market was flooded by stocks of matches, said to have been at least 500,000 cases.

Short talks on chemistry over the radio have been introduced for the first time by the American Chemical Society in New York. The first announcement was made, last week, by D. H. Killeffer of the New York Section, from the broadcasting station of the Westinghouse Electric Co., W. J. Z., at Newark, N. J. Future talks have been planned on the chemistry of paper, leather, textiles and other common products.

Sir James Dewar, the co-inventor of cordite and inventor of liquid air, liquid hydrogen and the thermos bottle, died on March 27 in London. He was born at Kincardine-on-Forth, Scotland, on Sept. 20, 1842. As early as 1874 he discussed the latent heat of liquid gases and ten years later he astonished the world by giving at the Royal Institution a public demonstration of the liquefaction of air and oxygen. More than thirty years ago he devised a vacuum-inclosed flask for containing liquid gases, and the success of this led to the making of what were at first called Dewar flasks, now known as thermos bottles.

AMERICAN DYE INDUSTRY FEATURED AT CHEMICAL SOCIETY'S MEETING

Dinner of Councilors Addressed by E. C. Franklin, Jas. R. Angell, Gen. Fries and Arthur D. Little—Francis P. Garvan Speaks at General Meeting—Sterling Laboratory Dedicated

(Special to DRUG & CHEMICAL MARKETS)

New Haven, Conn., April 4.—E. C. Franklin, newly elected president of the American Chemical Society; James R. Angell, president of Yale University; Gen. Amos A. Fries, of the Chemical Warfare Service, and Arthur D. Little, of Boston, were the principal speakers at the dinner to Councilors of the Society at the Hotel Taft, given under the auspices of the New Haven Chamber of Commerce, on Monday evening.

The general meeting was opened on Tuesday morning, at Woolsey Hall, with addresses of welcome and response, followed by Francis P. Garvan's speech on "Chemistry and the Public." In the afternoon, W. O. Mitscherling read a paper on "Cellulose Silk." Divisional meetings opened on Tuesday and were continued each day until Friday. A feature of the meeting this year is the symposium on the coal-tar dye industry of the United States prior to 1914, to be held on Thursday, April 5. The speakers are:

Elwood Hendrick. Recollections of the Coal-Tar Industry from 1881 to 1884, with Notes on Its Beginnings in this Country.

George A. Prochazka. American Dyestuffs—Past, Present, Future: Reminiscences, Autobiographically and Otherwise.

Charles E. Monroe and Aida M. Doyle. Washington's Relation to the Dye Industry.

Eugene Merz. Historical Note on the Dyestuff Industry, Prior to the Great War.

W. J. Stainton. Experiences with Dyes.

H. A. Metz and G. P. Metz. The Work of the Consolidated Color and Chemical Company, and of the Metz Laboratories Pertaining to Dyes and Related Products.

Irving W. Fay. Pre-war Teaching of Dye Chemistry.

J. F. Schoelkopf, Jr. Historical Development of Dye Industry in Buffalo.

Victor G. Bloede. Activities in the Production of Aniline and Aniline Colors at Parkersburg, W. Va., Around 1875.

R. Norris Shreve. Miscellaneous Notes on Pre-war Dye Work in United States.

W. S. Calcott and F. L. Eng'ash. The Analysis of Dyes by Titanous Chloride.

Joseph A. Ambler. The Work of the Color Laboratory.

H. Wales and O. A. Nelson. Adsorbed Moisture and Water of Crystallization in Certain Common Dyes. (Lantern.)

Walter C. Holmes. The Spectrophotometric Identification of Dyes. I. Acid Dyes of the Patent Blue Type. (Lantern.)

Walter C. Holmes. Volumetric Estimation of Auramine.

Neil E. Gordon. The Effect of Hydrogen-Ion Concentration on the Adsorption of Dyes by Alumina, Silica and Wood. (Lantern.)

Papers will be read on "The Electrolytic Preparation of Amino-Salicylic Acid," by E. K. Strachan, "The Analysis of Dyes by Titanous Chloride," by W. S. Calcott and F. L. English, "The Work of the Color Laboratory," by Joseph A. Ambler, "Adsorbed Moisture and Water of Crystallization in Certain Common Dyes," by H. Wales and O. A. Nelson, "The Spectrophotometric Identification of Dyes. I. Acid Dyes of the Patent Blue Type," by Walter C. Holmes, "The Spectroscopy of Dyes," by Walter C. Holmes, "Volumetric Estimation of Auramine," by Walter C. Holmes, "Sulphonation of Para-Cymene," by Max Phillips, "Naphthalene-Sulfonic Acids V. Sulphonation of Naphthalene in the Vapor Phase," by J. A. Ambler, D. F. J. Lynch and H. L. Haller, "Naphthalene-Sulfonic Acids. VI. The Quantitative Estimation of Naphthalene-2, 6- and 2, 7-Disulfonic Acids," by Herbert L. Haller and D. F. J. Lynch, "A Method for the Determination of Tolidine," by Samuel Palkin, "The Effect of Hydrogen-Ion Concentration on the Adsorption of Dyes by Alumina, Silica and Wood," by O. Reinmuth and Neil E. Gordon.

The meeting will be held in the Sterling Laboratory, which was dedicated this morning with elaborate ceremonies. At the meeting of the Division of Industry on Friday morning, Dr. Charles H. Herty will present a paper on "The Part That Synthetic Organic Chemicals Play in the Industrial Life of the Nation," followed by a discussion by Dr. C. L. Reese and Dr. C. E. K. Mees.

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SALESMEN TO ACT ON UNIFORM CONTRACT

A Committee on Uniform Contract on Heavy Chemicals has been appointed by J. W. Boyer, president of the Salesmen's Association of the American Chemical Industry, to co-operate with a committee named recently by the Chemical Manufacturers' Association. The committee, which will consider and act upon the question as soon as possible, is composed of the following members of the Salesmen's Association:

Chairman—John A. Kienle, vice-president in charge of sales, the Mathieson Alkali Works, Inc.;

Vice-Chairman—Williams Haynes, President of DRUG & CHEMICAL MARKETS;

P. S. Tilden, sales manager, acid and heavy chemicals division, E. I. DuPont de Nemours & Co.

E. J. Barber, manager chemical department, the White Tar Company, Inc.;

Ralph E. Dorland, sales manager, the Dow Chemical Co.

Business Brevities

Weisenthal & Co., 565 Broadway, have moved to 148 Greene st. The new telephone number is Canal 6180.

Herrick & Voigt, 1 Liberty st., N. Y., importers and exporters of industrial chemicals, will be located at 99 John st., N. Y., after May 1.

C. S. Littell and Co., wholesale druggists, will remove May 1 from 228 Fulton st. to 330 Spring st. The change is made necessary by the increase in business.

L. G. DuVal, formerly in charge of sales for the Barrett Co. in the central west, is now sales manager in the Metropolitan district for Cadwallader and Co.

W. G. Ungerer, president of Ungerer & Co., New York essential oil house, arrived in Geneva from Grasse, France, according to a cable received early this week.

Vassel Justin Keith, for twenty-eight years an employee and traveling salesman of J. L. Hopkins & Co., died at his home, 250 Stuyvesant st., Brooklyn, on March 26. He was seventy-five years old.

J. C. Smith, for many years secretary of the Oil Seeds Co., has severed his connection with that company and has formed a partnership with T. C. Weisman. The new firm has taken offices at 19 Moore st. They will specialize in vegetable oils.

George E. Chambers, formerly of the Norwegian Nitrogen Products Co. and Garrigues, Inc., New York, has joined the chemical sales force of H. W. Peabody & Co., 17 State st., New York. This makes another step in the expansion of the Peabody chemical department headed by Richard Anthony.

Isaac Hillier, Anderson-Hillier Co., 99 John st., has accepted the chairmanship of the Crude Drugs Division in the coming campaign for \$500,000 for Salvation Army Work in Greater New York. Harry Stebbins, Powers-Weightman-Rosengarten Co., has accepted the chairmanship of the fine chemicals division.

Exports of heavy chemicals showed successive gains in January and December from the figures of the previous months. In January 5,601,269 pounds, valued at \$109,094, were exported, while the December figures were 5,013,661 pounds, \$103,883. The November shipments aggregated 4,480,267 pounds, valued at \$88,207.

Financial Notes

New Jersey Zinc Co. has declared a quarterly dividend of 2 per cent, payable May 10 to stockholders of record April 30.

The International Nickel Co. has declared a quarterly dividend of 1½ per cent on the preferred stock, payable May 1 to stock of record April 16.

The Celluloid Co. showed total income of \$858,458 for the year ending Dec. 31. After deduction of \$585,983, reserve for depreciation of plant, net income was \$272,475.

New Cornelia Copper Co., for year ended Dec. 31, 1922, shows net loss of \$416,841, after depreciation, depletion and Federal taxes, as compared with \$360,103 in 1921.

Irving Fisher, professor of economics at Yale University, says that last week's prices averaged 167 per cent of pre-war level and that the purchasing power of the dollar was 59.08 pre-war cents.

Property of the Reliance Aniline Chemical Co., Poughkeepsie, N. Y., will be sold. Benjamin A. Mathews, 2 Rector st., N. Y., is the receiver of the company, whose assets are estimated at \$130,000 and liabilities at \$156,000.

Associated Portland Cement, London, has declared a dividend for 1922 of 5 per cent on 2,137,320 ordinary shares, and at the rate of 5 per cent per annum on 119,985 new shares for the period from May to December, 1922, carrying forward £227,440. The dividend for 1921 was 5 per cent.

The Southern Bleachery, Inc., Greenville, S. C., is offering \$1,000,000 in 7 per cent cumulative preferred stock at \$100 per share. The shares are redeemable in whole or in part at the option of the corporation at \$105 per share and accrued dividends on any interest date after Jan. 1, 1927.

The Allied Chemical and Dye Corp. has declared a quarterly dividend of \$1 a share on common stock, payable May 1 to stockholders of record April 13. The stock has been weak owing to the disappointment of traders, who expected that the company would place the stock on a dividend basis of \$6 a share.

The International Salt Co. for 1922 reports a total income of \$1,381,419, comparing with \$1,199,531 in the previous year. After payment of expenses for operation, and setting aside reserves for bond interest and taxes, there was a balance of \$906,084 for the \$6,077,130 capital stock outstanding or the equivalent of \$14.91 a share. After payment of \$364,627 for dividends, the surplus was \$541,457, against a surplus of \$579,069 after dividends in 1921.

The California Cyanide Co., in which the Air Reduction Co. is interested with California investors, is capitalized at \$1,000,000 par value 8 per cent preferred stock, and 43,300 shares of common stock of no par value. It was organized under Delaware laws. The preferred stock will be sold at par. Stockholders of the Air Reduction Co. will have an opportunity to buy stock on a pro rata basis to the value of \$672,500. The California interests are headed by F. W. Braun, of Los Angeles, who owns patents for the production of hydrocyanic acid used in the fumigation of citrus fruit trees. A plant will be built near Los Angeles.

QUOTATIONS ON CHEMICAL STOCKS

Closing Prices for Week Ending March 31

Bid	Asked	Bid	Asked
Air Reduction 67 3/4	69	Heyden Chem. 2 3/4	2 3/4
*Allied Chem. & D. 74	74 1/2	Hooker Electro. 55	65
*Allied Ch. & D., pf. 109 3/4	110	Hooker Electro, pf. 60	70
*Am. Ag. Ch. 30 3/4	30 3/4	Household Products. 37 1/2	37 1/2
*Am. Ag. Ch., pf. 60	61 1/2	*Int. Agricult. 8	8 1/2
*Am. Chicle 7 1/2	8 1/2	*Int. Agricult., pf. 32	34
*Am. Chicle, pf. 24 1/2	25	*Int. Nickel 14 1/2	14 1/2
*Am. Cot. Oil. 14 1/2	15 1/2	*Int. Nickel, pf. 75	77
*Am. Cot. Oil, pf. 38	40	*Int. Salt 78 1/2	82
*Am. Cyan. 15	20	*Mathieson Alk. 57	58
*Am. Cyan., pf. 53	56	Merck & Co., pf. 87	89
*Am. Druggist S. 6	6 1/4	Merrimac 88	88
Am. Glue 82	85	Mulford Co. 35	40
Am. Glue, pf. 124	126 1/2	Mutual Co. 150	150
*Am. Linseed 33	33 1/2	*National Lead 130 1/2	133
*Am. Linseed, pf. 53	56	*National Lead, pf. 110 1/2	111
*Am. Malt 12	13	N. J. Zinc. 179	181
*Am. Zinc 16	17 1/4	Niag. A., pf. 96	100
*Amer. Zinc, pf. 53	55	Parke, Davis & Co. 82	86
Atlas Powder 152	155	Penn. Salt 85	85
Atlas Powd., pf. 88	92	People's Gas, Chi. 97	97
By. Prod. Co. 37	37	Procter & Gamble. 124	128
Carborundum 135	135 1/2	Procter & Gam., pf. 102	106
Carborundum, pf. 115 1/2	116	Royal Bak. Po. 130	136
Casolin Co. 30	45	Royal Bak. Po., pf. 90	100
Celluloid Co. 95 1/2	96	Sherwin-Williams .. 29	29 1/2
Celluloid Co., pf. 109	109 1/2	Sherwin-W., pf. 93	97
Ches. Mfg. 227	233	Stand. Ch. 90	100
Ches. Mfg., pf. 112	115	Swan & Finch. 31	34
Com'l. Solv. A. 35	38	*Tenn. C. & Chem. 119 1/2	11 1/2
Do B 20	24	*Tex. Gulf, Sul. 61	61 1/2
*Corn Products 128 1/2	129	Union Carbide 63	63 1/2
*Corn Products, pf. 120	122	Union Sulphur	63 1/2
*Davison Chem. 33 1/2	35	*Un. Drug 79	82
Dow Chem. 200	203	*Un. Drug, 1st pf. 45	47
Dow Ch., pf. 103	103	*Un. Dyewood 42	50
Du Pont de Nem. 117 1/2	118 1/2	*Un. Dyewood, pf. 80	90
Du P't de Nem. Db. 86 1/4	87 1/2	Un. Gas Imp. 53	53 1/2
Eastman Kodak 112	112 1/2	Un. Gas Imp., pf. 55 1/2	55 1/2
Eastman Kodak, pf. 108 1/2	109	U. S. Gypsum. 71	71
*Freeport, Tex., Sul. 18 1/2	19	*U. S. Indus. Al. 70 1/2	70 1/2
Freep. Tex. Sul., pf. 91	93	*U. S. Indus. Al., pf. 101	103
*Grasselli 128	132	*Va.-Car. Ch. 18 1/2	19
*Grasselli, pf. 100	101 1/2	*Va.-Car. Ch., pf. 56 1/2	56 1/2
Hercules Powder 108	112	*V. Vivaudou 21	21 1/2
Hercules Powd., pf. 103	106		

*Listed on New York Stock Exchange

DU PONT GIVES STOCK TO EMPLOYEES

The du Pont Co. has distributed to its employees 14,484 shares of its own stock, of a par value of \$1-448,400, and \$130,000 in other securities as the matured portion of bonus awards made during the years 1918 to 1921, inclusive. The bonuses awarded for 1922 amounted to 2,300 shares, of a par value of \$230,000. They were distributed among 300 employees.

Bonus stock valued at \$20,765,999.50 has been awarded employees by the E. I. du Pont de Nemours & Co. and its predecessor since the inauguration of its bonus plan in 1904.

Discussing a circular issued by the Eastern Potash Corp., calling upon stockholders to place their stock in the hands of a protective committee, "The New York Tribune" says: "The stockholders' protective committee hopes to be able to formulate a reorganization plan. If this proves successful, present stockholders will be offered shares in the new company on payment of an established price. There will be no assessment for the committee's expenses, it is understood, but those who desire to participate in the reorganization, if it materializes, will necessarily have to supply additional working capital."

The St. Louis Coke and Chemical Co. has announced a plan to reduce the company's fixed charges from \$1-230,248 to \$454,160 by issuing new securities at a lower interest rate in exchange for bonds, giving two shares of new voting stock for each \$1,000 of the old 8 per cent bonds.

A sale of United Zinc and Chemical Co.'s 1st mortgage 5 per cent bonds and 10 per cent certificates of deposit brought \$26,000 at the Vesey Street Auction Rooms, last week.

CAROLINA CHEMICAL SHOWS RED FIGURES

The directors of the Virginia-Carolina Chemical Co. authorized the following statement on Thursday, March 29: "While the earnings of the Virginia-Carolina Chemical Co. for the current year, including those of the Southern Cotton Oil Co., all of the stock of which is owned by the Chemical Co., have been disappointing, and from present indications will run into 'red' figures after providing for fixed charges on the bonded indebtedness and amortization due primarily to the cotton oil side of the business, the financial condition of the company compared with a year ago shows a substantial improvement.

"The consolidated statement of the company shows cash of over \$7,300,000 and other quick assets of over \$40,000,000, while there has been a reduction of over \$8,000,000 in bank loans as compared with a year ago. The company's ratio of current assets to current liabilities is better than two to one.

"The fertilizer business has shown a substantial improvement over that of a year ago. March and April the two most profitable months of the year on the fertilizer side of the company's business, are yet to be reflected in its earning position."

In reply to an inquiry by a stockholder in the Virginia-Carolina Chemical Co., the "Wall Street Journal" says: "Virginia-Carolina Chemical does the greater part of its business south of the Mason and Dixon line, and while there are a large volume of polarized accounts still on hand down there, the advance in the price of cotton has helped considerably and Virginia-Carolina must of a necessity benefit therefrom. The cottonseed oil end of the business is still more or less at a standstill. Taking it all in all Virginia-Carolina Chemical should show better things at the end of its fiscal year."

The abrupt decline in Virginia Carolina Chemical preferred of 7 1/2 points to 54, last week, was due to reports in Wall Street that the company would show a loss for the year of \$1,500,000 before allowance for preferred dividend. The company's 7 per cent bonds which closed Tuesday at 93 broke four points to 89. No dividends have been paid by the company on either the preferred or common stocks since the spring of 1921.

The International Cement Corp. reports for the last quarter of 1922 gross sales of \$2,960,768, against \$3-083,406 in the preceding quarter and a surplus after Federal taxes, etc. of \$457,078, compared with \$432-929 in the previous quarter. The total surplus for the year 1922 amounts to \$1,420,371, equal to approximately \$4.04 a share on the common stock outstanding at the end of 1922 after allowing for preferred dividends.

New Incorporations

American Electro-Chemical Co., Wilmington, Del., \$500,000. Manufacturing of mechanical devices.

Sportnite Products Co., Inc., Wilmington, Del., \$500,000. Manufacture of toilet articles.

Agriplan Chemical Co., Dover, Del., \$550,000. Louis Pavalek, Horace N. Taylor, New York; William I. Brophy, Rockaway Beach, N. Y. (Delaware Registration Trust Co.).

Stanhoppers' Chemical Laboratories, Inc., Brooklyn, N. Y., \$15,000. To manufacture chemical products. C. G. Unger, M. Kupfer and M. L. Nathanson.

Rajah Chemical Co., Phila., Pa., \$110,000. To manufacture chemicals. L. H. Gerhold, (treas.) 668 No. 19th st., Phila.

Kornoff Chemical Co., 22 West Quincy st., Chicago, Ill., \$10,000. To manufacture chemicals. Morris Honorof, S. Ruthstein, George J. Teller.

Radex Laboratories, Wilmington, Del., \$100,000. Chemists. Corporation Service Co.

Marker Chemical Co., Fairmont, W. Va., \$1,000,000. R. L. Long, S. S. Burke, Fairmont; Earl Van Horn, Clarksburg.

The Heavy Chemical Market

Current Spot Quotations of Heavy Chemicals, page 864

DEMAND FOR HEAVY ACIDS IMPROVES

Manufacturers Operating at Capacity—Tin Crystal Prices for April Higher—Potash Compounds Continue Scarce and Strong—Barium Chloride Easier

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced	
Ammon. Chlor., Imp., white, ¼c lb. Potassium Chlorate, Imp., ½c lb.	
Barium Carbonate, \$1 ton	Tin Crystals, ½c lb.
Oxalic Acid, ¾c lb.	Tin Dichloride, ¼c lb.
Potassium Carb., 80-85%, ¼c lb.	Tin Tetrachloride, ½c lb.

Declined	
Barium Chloride, Imp., \$5 ton	Zinc Chloride, fused, 1c lb.

	Trend of the Market					
	Today	Last Week	Last Month	Last Year	Peak	Pre-War
Acetic Acid, Glac'al....lb.	\$12	\$12	\$12	\$6.08½	\$19½	\$0.07
Sulfuric Acid, 65 deg...ton	15.00	15.00	14.00	16.00	55.00	20.00
Bleaching Powder,						
Works .....100 lbs.	2.00	2.00	2.00	2.00	9.50	1.50
Copper Sulfate .....100 lbs.	6.40	6.40	6.40	5.40	20.00	4.50
Potash Caustic .....lb.	.08¾	.08¾	.08	.05	.87	.03
Saltpetre, cryst. ....lb.	.07	.07	.07	.07¾	.35½	.04½
Soda Ash, 58 p.c....100 lbs.	1.30	1.80	1.80	1.70	3.50	.60
Caustic Soda, 76 p.c.100 lbs.	3.35	3.55	3.55	3.60	9.50	1.42
Potassium Bichromate .lb.	.10	.10	.10	.10	.65	.06¾
Average	3.233	3.233	3.122	3.203	11.06	3.14

Business showed considerable improvement during the week with buyers showing a tendency to take on larger quantities of supplies. In the domestic market caustic soda and soda ash are moving steadily and in generous quantities. Demand for heavy acids continues to expand and manufacturers are operating at capacity. April prices for tin crystals and other tin products are slightly higher due to the higher cost of the metal.

Acid Acetic—Buying is in good sized quantities. Prices tend to restrict buying somewhat, and some consumers are inclined to turn to cheaper acids which serve the same purpose. Prices are steady in makers' hands at \$3.17½ per 100lbs for 28 per cent up to \$12.15 for glacial.

Acid, Muriatic—Demand continues active and makers' shipments are growing larger each week. Some makers are planning increased production to take care of the greater demand. There was nothing new in prices.

Acid, Oxalic—With improved demand and less competition from imported material supplies are moving in greater volume. Prices are slightly higher with mak-

ers quoting barrels at 13c lb at works. Spot prices at 13c@13¾c lb; imported quiet at 13¾c@13½c lb.

Acid, Sulfuric—Supplies are no longer to be had upon demand, since increased consumption has taken up all available stocks and makers are having some difficulty in supplying the demand. Consumption in the fertilizer industry is now assuming large proportions. Prices are much firmer and it is doubtful if less than \$15 per ton for 66 degree can be located near New York. The range is now \$15@16 per ton in tanks at works. Sixty degree acid is also firmer at \$10@11 ton. Oleum has become very scarce in the local market and some makers are unwilling to quote, having nothing to offer. Tanks would be \$19@20 ton at present.

Acetone—Supplies are very small in the local market due to the recent lack of shipping facilities. At the works C.P. is quoted at 22c@23c lb in carlots, and ½c lb higher in less cars.

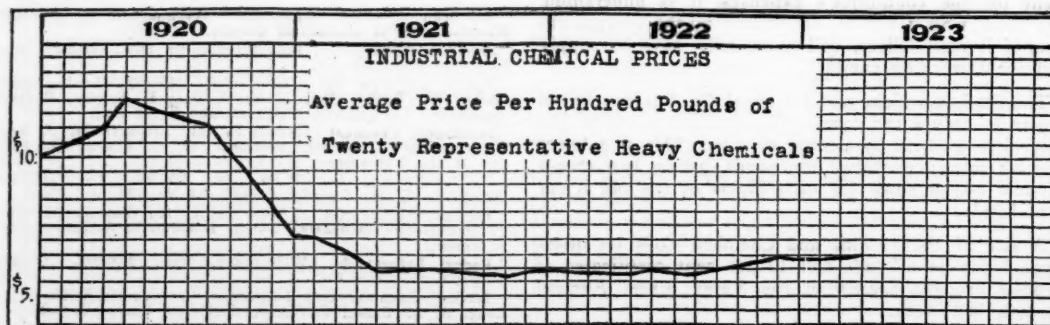
Ammonium Chloride—The market for imported material has become stronger with a scarcity of material and higher replacement costs. The imported white has advanced to 7c@7¼c lb. The gray is very scarce at 8c@9c lb. Domestic demand has improved with makers quoting white at 7¼c@8c lb, gray 8c@8½c lb. Lump is held at 14c@15c lb.

Ammonium Sulfate—Makers' production has been sold far in advance. Prices are mainly nominal for prompt delivery and are held at \$4.20 per hundred for shipment in bags. Bulk is named at \$3.30@3.45 for futures.

Arsenic—Inquiry has been good and buying a little more active, but has been under cover for the most part. Prices have ranged from 15½c@16c lb. Calcium arsenate is moving on previously placed contracts and sellers have not much to offer.

Barium Products—Demand for chloride has been slow and imported material was offered at \$85@90 ton; domestic steady at \$90 ton; imported carbonate is in small supply and dealers are quoting \$73@74 ton; domestic is named at \$70@75 ton.

Bleaching Powder—Some makers are sold up while others have a little to offer, though not in large quantity. Demand has been increasing steadily and production at present is taxed to the limit. Spot prices range from \$2.40@2.65 per 100lbs for less than cars; spot, works, \$2.15@2.25; contracts are named at \$1.90@2.00 as to maker.



Glauber's Salts—The market has firmed up considerably as supplies are not too plentiful and there is none accumulating for the summer season. Technical is held at \$1.25 in carlots of barrels; U.S.P. at \$1.40; imported firm at \$1.00@1.10.

Soda Ash—In the local market supplies are moving steadily and in good volume. Prices range from \$1.80@ \$2.00 as to maker and quantity. Distribution has been on the increase throughout the country and makers report an increased demand from all sources. Export trade is on the increase. Makers' prices are steady at \$1.20 for 48 per cent in bags at works.

Caustic Soda—March business was particularly heavy. Demand is widespread and not confined to any one industry. Export business has been very encouraging recently. Prices are unchanged in makers' hands at \$2.50 per 100lbs on the basis of 60 per cent; spot prices \$3.45@3.70 as to maker and quantity.

FERTILIZERS CONSUME MORE SULFURIC

Manufacturers of fertilizers producing sulfuric acid and acid phosphates consumed 932,747 net tons of sulfuric acid in the manufacture of fertilizers during the six months period July 1 to Dec. 31, 1922, compared with 657,062 tons during the first half of the year, a total consumption for the year of 1,589,809 tons, according to the Census Bureau. Stocks of sulfuric acid on hand at the end of the year were 137,864 tons, compared with 131,516 tons at the beginning of the year.

These establishments reported the manufacture of 1,589,483 tons of acid phosphates, containing 26,507,858 units of available phosphoric acid, during the second half of 1922, as compared with 1,198,724 tons, containing 20,104,992 units, during the first half—a total production for the year of 2,788,207 tons, containing 46,612,850 units. (A unit equals 20 pounds). Stocks of acid phosphates on hand at the end of the year amounted to 1,689,562 net tons, as compared with 2,129,339 tons at the beginning of the year.

The Bureau of Fisheries has recently discovered that copper compounds will kill marine organisms, and has worked out methods of applying the copper in oil solutions to ropes, used in fishing. Such a mixture not only will protect a cable from marine growth, but also from mould and other micro-organisms that rot it. It is estimated that fishing companies are obliged to replace 200,000,000 pounds of rope annually.

Quick-acting nitrogen in the form of sulfate of ammonia was applied to an orchard of Jonathan apple trees in sod mulch, at the proportion of five pounds to each tree, early last spring. L. A. Bregger says that each of the fertilized rows yielded at least twice as much as unfertilized rows. The trees are 21 years old and are set 32 feet apart in rows spaced 36 feet, and the application was about 190 pounds per acre.

Chile's exports of nitrates during February amounted to 292,000 metric tons, and sales were 158,000 tons. During the first twenty days of March, 179,000 tons were sold.

The Commissioner of Agriculture of Georgia reports that the state has bought 570,744 tons of fertilizer this year to date, more than in the last five years.

The Afghan Government has imposed a duty of 10 per cent ad valorem on all imported salt.

The Consolidated Coal Products Co., Fairmont, W. Va., will build a by-products coke plant.

ITALY GAINS BY SULFUR AGREEMENT

The sulfur agreement between American producers and the Sicilian Sulphur Consortium relates chiefly to sales prices and markets. North America has been assigned to the American producers; the Italian markets to the Sicilian producers. The remainder of the world has been proportionately divided between the two with provision that Sicily may sell to any country a maximum of 65,000 tons for the manufacture of sulfuric acid. Agreement permits Sicily to export annually a total of 210,000 tons, including 65,000 tons for sulfuric acid. This export is largely in excess of Sicilian exports in recent years. Export agreement relates solely to unrefined sulfur. Export of refined and ground sulfur is left entirely free. The agreement is valid until Sept. 30, 1926, and may be renewed.

A central bureau will have headquarters in London with representatives of the contracting parties appointed for the exchange of information and statistics for the execution of the agreement. Disagreements will be submitted to a London board of arbitrators, composed of a representative of each of the parties and the third named by the first two. The Texas Gulf Sulphur Co. has established a research laboratory to find new uses for sulfur.

The proceeds of the new Italian bond issue for 100,000,000 lire, guaranteed by the Government, will be used in liquidating debts contracted by the Sicilian Sulphur Consortium and the redemption of certificates issued to cover advances made on sulfur delivered during the fiscal year 1920.

The basic security for the bonds is the stock of 273,740 tons of sulfur held in the warehouses of the consortium on April 30, 1922. In addition, the bonds are guaranteed by the net assets of the consortium, including its reserve fund, as well as other assets of the consortium and of the individual producers of sulfur.

GERMAN CHEMICAL PRICES HOLD FIRM

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Berlin, Germany, March 24.—Prices of chemicals are not showing any signs of weakening, and only fertilizers are cheaper. Coal by-products are stiffening, as stocks are diminishing, due to the stoppage of supplies from the Ruhr. Stocks are held by financially sound firms, and though there is a fair demand they show little inclination to part with their goods.

In several lines export business has been livelier, and some export prices are below inland quotations. In most articles prices have again attained the same level which they had when the mark was at its lowest value. Caustic soda is in great demand and prices of foreign supplies have advanced. Imports are heavy especially from Poland. Salicylic preparations are in demand. Prices for chrome alum are stiffening. The stoppage of supplies from occupied Germany has created a scarcity. There are numerous inquiries for caustic potash and ammonium chloride. Business in bromide of potassium is quiet and prices are easier. Borax prices are fluctuating and show a downward tendency. Formaldehyde is in fair demand, but few lots change hands.

Aniline dye prices which were advanced one hundred per cent at the beginning of February have been reduced by ten to twenty-five per cent. While official prices for nitrate fertilisers have in the past been fixed according to cost of production, they are now largely determined by the exchange value of the mark and the price of Chile salt-peters, and have been reduced by about ten per cent.

The Intermediate and Dye Market

Current Spot Quotations of Intermediates, see Chemicals, page 868

BETA-NAPHTHOL DEMAND IS ACTIVE

Supplies Moving in Larger Quantities—Export Inquiry for Intermediates Increasing—Coal-tar Crudes Continue Scarce—Chrome Black Active—Tapioca Flour Strong

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

	Advanced			Declined		
	Today	Last Week	Last Month	Today	Last Week	Last Month
Beta-naphthol, 1/2 lb.	...	...	...	...	...	...
Naphthalene, flake, 1/2 lb.	...	...	...	...	...	...
Trend of the Market						
Benzene, C.P.	gal. \$30	\$30	\$30	\$29	\$1.10	\$26
Naphthalene, flake	lb. .09	.09	.07	.08	.16	.03
Phenol	lb. .50	.50	.35	.12	1.50	.45
Xylene, 2-deg.	gal. .45	.45	.45	.45	..	..
Toluene, pure	gal. .30	.30	.30	.30	..	..
Aniline Oil	lb. .16	.16	.16	.15	1.40	.10
Benzaldehyde	lb. .65	.65	.60	.55	..	..
Betanaphthol, dist.	lb. .24	.24	.24	.28	1.50	.08
Paranitroaniline	lb. .74	.74	.74	.77	1.85	.18
Average	0.375	0.375	0.354	0.334	1.25	1.67

While demand for intermediates was less active during the final week in March, the total business for the month has shown a decided increase in volume and added strength in prices. Numerous price changes took place due to increased demand, scarcity of supplies and increased costs of production. The more important intermediates are moving steadily while demand for others is improving as the season for making fall colors approaches. H-acid is moving as fast as production will permit, makers being well sold up in this line. Beta-naphthol is moving in much larger quantities with prices firmer. Alpha-naphthylamine is scarce and strong. Dimethylaniline is more active. Para-nitraniline is stronger.

The situation in phenol is unchanged with supplies very limited and sellers holding the market firm at the recent price level. Cresylic acid is in little better supply, though being far from filling the demand. Benzol is in fair supply, but toluol and solvent naphtha are scarce. Xylol has improved. Naphthalene is reported very scarce but prices appear to have reached the maximum.

Coal Tar Crudes

Benzene—Producers state that stocks are in fairly good supply and are taking care of the present demand without much trouble. Prices are unchanged with 90

per cent at 27c@32c per gallon as to quantity. C.P. is named at 30c@35c. Resale prices are from 33c@35c for the 90 per cent and 36c@38c for C.P.

Cresylic—Domestic production is well sold up while supplies in the market are limited to small quantities. Some imported material is available at \$1.30@1.50, depending upon the quantity and quality.

Naphthalene—Stocks are reported scarce but the high prices are restricting business. Resale prices for flake are now at 9c/lb, a slight decline from last week's high. Balls are named at 10c@10 1/2 c/lb. Crude is stronger at 3 1/2 c@4c/lb. Makers are sold up and have nothing to offer.

Phenol—The market maintained its firmness but the excitement has subsided. Supplies admittedly small and holders are asking 50c@52c/lb, though an occasional sale is made at 48c@49c/lb. Supplies abroad are also scarce with prices equivalent to 39c@40c/lb.

Toluene—Quotations are mainly for delivery some time in the future, as present stocks are very small in the East.

Xylene—Prominent producers have nothing to offer and are not in a position to quote. Some material is available in the market at \$1.00 per gallon.

Intermediates

Acid, Gamma—Demand continues along steady lines with makers quoting ton lots at \$1.70/lb and smaller quantities at \$1.80.

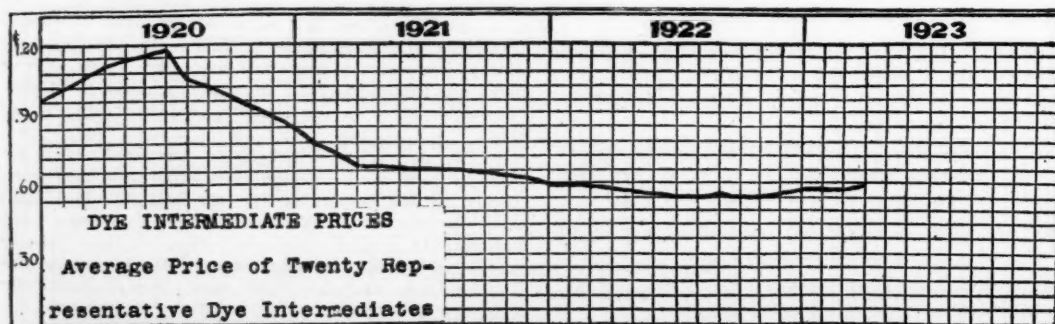
Acid, H—Supplies are very scarce, as makers are well sold in advance. Demand is active and every available pound is eagerly taken up. Prices are named at 80c@90c/lb as to quantity.

Acid, Laurent's—Demand for this product is improving while supplies are very small. Quoted at 90c/lb.

Acid Salicylic—High costs of phenol have made this market strong and makers are now selling U.S.P. at 50c/lb and technical at 47c/lb. Demand is active.

Alpha-naphthylamine—Recent demand has taken up all available supplies and production has been slow. Ton lots are named at 35c@37c/lb and smaller lots at 37c@39c/lb.

Aniline Oil—Demand is steady in the domestic trade with supplies sufficient. Prices are steady at 16 1/2 c@17c/lb drums. In a large way at 16c/lb. Some export demand has been reported of late.



Benzidine—Movement is steady with color makers showing more interest in this product. Prices are firm at 84c@86c/lb.

Beta-naphthol—The past month saw a large volume of business and the demand is keeping up. Prices are firmer with makers quoting ton lots at 23½c@24c.

Dimethylaniline—Demand has been on the increase in the domestic market while some export inquiry is reported. Prices are firm at 43c@44c/lb in drums.

Para-toluidine—The market continues firm at 95c@ \$1.00 with demand strong from some quarters. Supplies are not very plentiful.

Para-nitraniline—In steady demand with the volume of business increasing steadily. Makers name 74c@76c/lb as to quantity.

R-Salt—Improvement in demand and business reported satisfactory. Prices are named at 55c@60c/lb.

Coal-Tar Dyes

There were no new developments in the market for coal-tar dyes during the past week. The movement of staple colors continued along steady lines with some interest displayed in colors for the fall business. Exports of coal-tar dyes have been increasing steadily in nearly all lines. Basic colors, especially Malachite Green, have been in active demand from Japanese sources. The report that the DuPont Co. had received a large order of a million pounds of indigo per month from China has been officially denied by the company. The volume of imported colors continues to grow smaller, and present consumption of dyes is almost wholly from domestic production. Chrome black has been in active demand. Bismark brown is becoming more active. Competition in Acid Blue Black has forced prices down to little or no profit for the sellers. Direct black is firm. Exports of coal-tar dyes for January, 1923, totaled 821,847 lbs., valued at \$332,000. China was the largest taker with 493,928lbs; Canada was second with 145,000lbs; and Japan third with 64,830lbs.

Dextrines and Starches

The market for corn starch and dextrines is firm and increasing strength is looked for earlier this year. Tapioca flour is also strong with shipment prices higher and spot prices advanced. High grade is now quoted at 6c@7c/lb. Corn dextrine is named at \$3.39@3.49 as to quantity. Tapioca dextrine is firm at 8½c@9c/lb. British gum is quoted at \$3.74@3.94. Powdered starch is steady at \$2.82@2.92; pearl, \$2.72@2.82; domestic potato named at 5c@5½c/lb; imported, 5¾c@6¼c/lb.

The Sandoz Chemical Works, of Basle, Switzerland, has opened offices and warehouse at 111 King st., West, Ontario, Canada. The agency which McArthur Irwin, Ltd., Montreal, has held for the sale of Sandoz products has been terminated by mutual consent. McArthur Irwin, Ltd., are now the sole importers of dyestuffs manufactured by Actien-Gesellschaft fur Anilin-Fabrikation, Berlin, whose dyes they distributed before the war, Chemische Fabrik Griesheim-Elektron, Frankfurt, and Chemische Fabriken, Weiler-ter Meer, Uerdingen.

Dunker & Perkins Co., Boston, Mass., dyestuffs, have filed with the Massachusetts commissioner of corporations their annual statement of conditions for the year ended Dec. 31, 1922, with assets and liabilities each \$206,251.

William Hamlin Childs, vice-president, director and member of the executive committee of the Allied Chemical and Dye Corp., has resigned.

CALLS GERMAN DYE REPORTS NONSENSE

In an article on German dyes in "The Textile World," Rutledge Rutherford, a Berlin newspaper correspondent, says: "In other countries products of the post-war plants, for the most part, are found to be too expensive, and many of the colors do not hold. Hence, instead of totally excluding German dyes, as was the original plan, the other nations are beginning to limit their embargoes and modify their restrictions."

Commenting upon these statements, "The Textile World" says: "When an Englishman seeking the facts is offered so many glaring mis-statements as Mr. Rutherford apparently received from the German factors upon whom he called, it is easy to understand how such a miscellany of conflicting and inaccurate opinions has come out of Germany since the war."

Replying to the Rutherford statement, Sir William Alexander, Chairman of the British Dyestuffs Corp., Ltd., says:

"Mr. Rutherford's statement, in so far as it is part of a discussion on dyestuffs questions, is largely nonsense. British users are not forced to use inferior colors because of the Dyestuffs Act. Licenses to import German products are freely granted where there is any doubt about the equivalent of the corresponding British material. The question of British spindles going out of operation has nothing to do with dyestuffs, and you, as an American, will realize that such an event would be largely connected with the decrease in the American cotton crop, and an increase in the domestic consumption of raw cotton of the United States itself."

CANADA BUYS MORE U. S. DYES

Dyeing and tanning materials imported by Canada in January were valued as follows: From Britain \$13,477, United States \$271,729, other countries \$96,475, total \$381,681; compared with imports from Britain, \$26,885, United States \$234,772, other countries \$90,313; total \$351,970, for January 1922.

Imports of aniline and coal-tar dyes included in the above were: From Britain 20,718 lbs. value \$10,014; United States 160,998 lbs. value \$96,448; Germany 29,502 lbs., value \$31,497; Netherlands 35,290 lbs., value \$33,176; Switzerland, 23,802 lbs., value \$22,958; other countries 3,834 lbs. value \$1,971; total 274,144 lbs. value \$196,104; compared with imports from Britain, 10,390 lbs. value \$21,603; United States 124,110 lbs. value \$108,346; Germany, 7,862 lbs. value \$56,110; Netherlands, 12,494 lbs. value \$17,490; Switzerland, 10,549 lbs. value \$11,439. Other countries, 2,180 lbs. value \$2,568; total 173,585 lbs., value \$217,622, for January 1922.

The monthly report of dye imports for March will be similar to that of February. It is planned, however, to extend the service to also include imports of intermediates, finished coal-tar products other than dyes, and synthetic organic chemicals from other than coal-tar base. It is thought that arrangements can be perfected to start this service in April. Dr. Charles Hertzy, president of the Synthetic Organic Chemical Manufacturers' Association, in an informal discussion with Ernest W. Camp, chief of the customs division, and C. C. Concannon, acting chief of the chemical division of the Department of Commerce, in Washington, lauded the work of the chemical division and particularly the speed with which the reports are now issued, within a week from the end of the month, thereby increasing their value to the trade.

The DuPont Co. has announced an increase in wages of 10c an hour for 2,000 workers in the dye plant at Deepwater, N. J., and the Gibbstown, N. J., plant. The increase does not affect the clerical force.

The Oil Market

Current Spot Quotations of Oils, Tallows, Greases, page 879

CHINAWOOD OIL ADVANCED TO 35cLB.

Scarce on Spot and Few Offerings from Orient—
Linseed Oil Advanced Again—Castor Oil Higher on
Seed Scarcity—Cottonseed Oil Easier—Animal Oils
Less Active.

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced	
Castor Oil, 1/4c lb.	Linseed Oil, raw, 3c gal.
Chinawood Oil, spot, 5c lb.	Palm, Niger, 1/4c lb.
Perilla Oil, Shipment, 1c lb.	
Declined	
Cottonseed Oil, crude, 1/4c lb.	Red O.I., 1/4c lb.
	Sperm Oil, 5c gal.

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Cod Oil, N. F.....gal.	\$.70	\$.68	\$.68	\$.55	\$1.27	\$.36 1/2
Degras, American, bbl., lb.	.04 1/4	.04 1/4	.04 1/4	.03 3/4	.25	.03 1/2
Lard, No. 1.....gal.	.99	.99	.97 1/2	.65	2.90	.92
Menhaden, crd. bbls.....gal.	.55	.55	.55	.42	1.20	.33
Neatsfoot, 20 deg. c.t.gal.	1.39	1.39	1.39	1.32	3.45	.95
Red Oil, distilled.....lb.	.11 1/4	.11 1/4	.11 1/4	.07 3/4	.17	.07
Stearic Acid, T.P.....lb.	.16	.16	.15 3/4	.10 1/2	.33	.12
Coconut, Ceylon						
Dom., bbls.....lb.	.10	.10	.09 1/2	.08 1/2	.90	.14
Cottonseed, crude, tanks, lb.	.10 1/4	.10 1/2	.10	.10	.25	.08
Linseed, carlots.....gal.	1.13	1.10	.98	.86	1.88	.57
Olive, denatured.....gal.	1.15	1.15	1.15	1.10	4.50	1.05
Peanut, refined.....lb.	.16 1/2	.16 1/2	.16 1/2	.11	.20	.08
Soya Bean, bbls.....lb.	.13 1/4	.13 1/4	.12 3/4	.09	.19 1/2	.07
Average	0.512	0.510	0.496	0.419	1.30	0.362

Scarcity of supplies and high prices have had a tendency to restrict business and trading was less active during the week. Chinawood oil continues very scarce on spot and prices are entirely nominal. Offerings from China have been very small and prices have been firm. Linseed oil crushers have very little oil to offer for prompt delivery and are quoting higher prices for this business, which is mainly small lots. Flaxseed prices have advanced in all markets. Cottonseed oil prices have been shrinking under general liquidation of stocks. Castor oil prices have advanced, mainly because of scarcity and higher prices of seed. Coconut oil is firm. Tallow and animal oils were quiet the recent high prices having slowed up buying. Red oil is lower while stearic acid is firm. Shipment prices for olive oil foots are slightly higher. Interest in the fish oil market has been in the prices for next season's catch on the "if made" basis. Cod oil supplies are limited and sales are being made only in small lots. Turpentine has advanced.

Vegetable Oils

Castor Oil—Supplies are reported small and seed

scarce and higher. Crushers have advanced their prices to 14 1/2 cfb for No. 1 in barrels and 14 cfb for No. 3.

Chinawood Oil—The small amount available on spot is held nominally at 35 cfb. Offerings from the Orient are very small though river shipping has improved in China. Prominent sellers are at a loss to explain the cause of the continued scarcity at the primary market. May-June shipments are quoted at 27 cfb.

Coconut Oil—There was not much change in the situation, prices holding firm and offerings somewhat limited. Ceylon in tanks was steady at 10 1/2 c@ 10 1/4 cfb. Cochin, 10 3/4 c@ 11 cfb in bbls. Manila, 8 3/4 cfb in tanks at Coast. Edible, 11 c@ 11 1/4 cfb.

Corn Oil—Crude remained firm with sales at 10 1/2 c@ 10 3/4 cfb at the mills. On spot barrels held at 12 1/2 c@ 13 cfb. Refined steady at 13 1/2 cfb.

Cottonseed Oil—The market was somewhat irregular with the trend of prices downward with a net decline of 1/4 cfb. Demand for crude oil was light and prices at the opening of this week were 10 c@ 10 1/4 cfb. P. S. Y. declined to 11 cfb on spot. Futures quoted at 11 c@ 11 1/2 cfb up to Sept. Oct.-Nov. 9 1/2 c@ 10 1/4 cfb.

Linseed Oil—Crushers had practically no oil except in small lots to sell on spot. Prices have been advanced to \$1.13 for carlots and less. May-June prices were named at \$1.10. Foreign prices are higher at 44s London, and Antwerp 337f. Flaxseed prices are higher in both foreign and domestic market. Duluth cash seed opened this week at \$3.03; May, \$3.03 1/2; July, \$2.94. Winnipeg May, \$2.59; July, \$2.49. Buenos Aires firm at \$1.99.

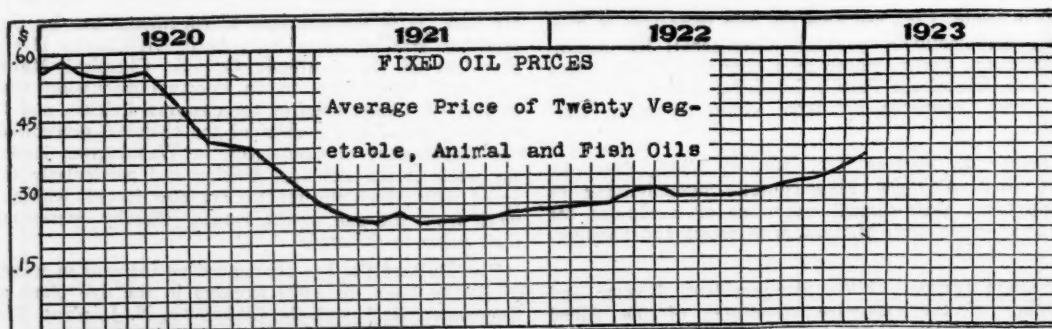
Olive Oil—Denatured is firm at \$1.15@ \$1.17 on spot with shipment named at higher figures. Edible is steady at \$1.80@ \$2.20. Foots on spot held at 9 1/4 c@ 9 1/2 cfb. Shipments are quoted higher at 9 1/2 c@ 9 3/4 cfb.

Peanut Oil—Supplies are scarce and sellers are holding crude at 15 cfb on spot with shipments named at 15 3/4 c@ 16 1/4 cfb. Refined oil named at 17 c@ 17 1/4 cfb.

Soya Bean Oil—Sales were reported of 30 tank cars of crude oil for April-May shipment at 10 1/4 c@ 10 3/4 cfb, duty paid, from the Coast. The market is firm with supplies on spot very small with crude held at 12 1/2 c@ 13 cfb. Refined named at 13 1/4 c@ 13 1/2 cfb.

Animal Oils

Greases—Prices held unchanged with buyers show-



ing a tendency to await lower prices. Supplies were reported to be in fair quantities. White, 10c@10½clb; yellow, 8¾clb; brown, 8½clb; house, 8¾clb.

Lard Oil—Business was confined to moderate quantities but the prices remained firm mainly because of the light stocks on hand. Edible prime steady at 15½clb; extra, 14clb; extra No. 1 13¾clb. No. 1, 13¼clb.

Neatsfoot Oil—Prices remained steady with business along routine lines. Stocks were in fairly good supply. Prime held at 14¾clb; 20 degree test, 18½c@20clb; 30 degree, 15¼c@15½clb.

Red Oil—Producers naming lower prices at 11½clb, for both distilled and saponified, the decline being due to the easier market in tallow.

Stearic Acid—Demand continued active and the market remained firm at recent quotations. Prices of raw materials are lower but higher costs of manufacturing are keeping prices up. Double pressed in carlots held at 14½clb; triple pressed at 16clb.

Tallow—The market had an easy tone with consumers showing little interest with prices at the present levels. Producers maintained extra at 9clb.

Fish Oils

Cod Oil—Sales were confined mainly to small lots with stocks small in sellers' hands. Prices were maintained at 70c@72c per gallon in barrels on spot.

Menhaden Oil—Interest in this market was confined mainly to talk of next season's catch. Sales have been reported at 50c per gallon on the "if made" basis. Crude is scarce at present and prices are purely nominal. Refined oils are in good demand and prices are higher. Light pressed named at 79c@80c per gallon in barrels.

Sperm Oil—Supplies are not plentiful but with routine demand and competition prices are down to 94c per gallon for 45 degree test and 99c for 38 degree, N.Y. Prices f. o. b. New Bedford, 89c@94c.

Naval Stores

Turpentine—The Holidays halted business toward the close of the week but previously buying was along broad lines. Prices advanced to \$1.59 in the local market. Savannah rose to \$1.51.

Rosin—Prices remained unchanged with demand in the local market confined to the medium grades. A good movement was reported from the South.

The Tariff Commission has been asked by the Southern Tariff Association not to grant the applications it has received for a revision of the import duties on vegetable oils and competing fats. The association's petition, which is among the first to reach the commission in opposition to proposed tariff modifications, insisted that any consideration given the appeals for revision under flexible provisions of the law means further disturbance in the industries which the rates were intended to protect. The applications for revision of the old schedule, the petition said, came from the soap and varnish manufacturers, who seek a lower import rate on their raw products.

The naval stores year for 1922-23, which came to an end March 31, found the statistical situation at Savannah stronger than for several seasons past. The receipts of turpentine spirits for the season were 102,861 casks, against 98,225 for last year. Shipments 103,196, against 105,959, and stock today 1,722, against 624 for last season. The rosin receipts for the season were 388,272, against 348,651 for last year, with shipments 428,371, against 378,906, and stocks today 64,143, against 65,652 at the close of last season.

Oil Trade Notes

Java's exports of peanut oil fell in 1922 to 145,804 litres and 1,211,705 litres during 1920 and 1921.

The Perfumery, Soap and Extract Association of Chicago gave a dinner-dance on April 4 at Marigold Gardens, Chicago. Clarence Morgan was chairman of the Entertainment Committee.

The Oso Products Co., has been organized at San Francisco to engage in the manufacture of soap. The company has capital stock of \$150,000 and the subscribers are H. Morgan, A. Gunzendorfer, G. Gunzendorfer, Thomas G. Elgie and F. L. Gadsby.

The value of products of establishments primarily engaged in rendering grease and tallow (not including lubricating greases) amounted to \$27,074,000 in 1921, according to the Census Bureau, as compared with \$67,265,000 in 1919 and \$24,901,000 in 1914, a decrease of 60 per cent from 1919 to 1921, but an increase of 9 per cent for the seven-year period, 1914-1921.

Exports of coconut oil from Java practically ceased in 1922, only 12,000 litres being shipped, whereas in 1921 and 1920 the quantities exported were 30,310,000 litres in 1921, and 63,899,000 litres in 1920. There were no direct shipments to the United States last year, whereas in the two preceding years the figures were: in 1921, 10,951,000 kilos, and in 1920, 11,640,000 kilos.

The 1922 production of peanuts in Japan is estimated at 13,228,000 lbs. The exportable surplus of this estimate is 6,614,000 lbs., of which amount 727,540 lbs. have already been exported. It is estimated that 500 tons of unshelled and 2,000 tons of shelled Chinese peanuts, but no peanut oil will be shipped from Japan. The United States takes about 80 per cent of Japan's peanut exports.

Imports at San Francisco during the week ending March 24 included the following: On the steamer Ventura, from Sydney, to the Anglo & London Paris National Bank 877 bags copra, to Atkins, Kroll & Co. 24 casks stearine, to Wightman & Crane 520 bags copra, to Paul Boetler 69 bags copra, and to the Crocker National Bank 286 bags copra.

Government statistics of the factory production of vegetable oils, fish oils, animal fats and greases in 1922 are as follows: Vegetable oils, 869,315 tons; fish oils, 38,015 tons; animal fats, 1,022,872 tons; grease, 189,251 tons. Of these totals crude cottonseed amounted to 465,194 tons; linseed oil, 229,021 tons; coconut oil, 92,763 tons. Neutral and edible lard, 812,390 tons; tallow, 206,031 tons; menhaden, 15,114 tons; corn oil, 14,481 tons. Refined oil totals were cottonseed oil, 410,211 tons; coconut oil, 67,621 tons; peanut oil, 11,736 tons; soya bean oil, 1,609 tons; corn oil, 40,649 tons; palm kernel oil, 103 tons.

The Certain-teed Products Corp., with New York offices in the Woolworth Building, has just closed a lease of the entire twenty-fourth floor in the Pershing Square Building, consisting of 17,700 square feet, as its new headquarters and intends to bring its executive and clerical force from St. Louis to New York. This company maintains eight manufacturing plants, distributed from the Atlantic to the Pacific, and has sales offices in practically every large American city. They manufacture prepared asphalt roofings, tar felts, building paper, linoleum and other floor coverings, oil-cloths, paints, enamels, stains and varnishes.

The Fine Chemical Market

Current Spot Quotations of Fine Chemicals, page 868

MAKERS ADVANCE TARTARIC ACID AGAIN

Imported Goods Continue to Climb—Imported Citric Acid Higher—Antipyrine and Amidopyrine Up—Menthol Softens—Glycerin Lower—Cream Tartar Higher—Permanganate Scarce

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced	
Acid Citric, Imp., 3c lb.	Amidopyrine, 15c lb.
Acid Salicylic, Tech., 5c lb.	Antipyrine, 10c lb.
Acid Tartaric, Imp., 2c lb.	Cream Tartar, 1½c lb.
Declined	
Glycerin, C.P., ½c lb.	

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Acetanilid	\$35	\$35	\$35	\$31	\$2.00	\$2.20
Acid Citric, Import .....	.52	.48	.48½	.44½	1.25	.45
Caffeine Alkaloid	3.75	3.75	3.75	3.75	18.00	3.65
Calomel, American	1.25	1.25	1.25	.88	3.43	.90
Camphor, Jap., ref. ....	.90	.90	.91	.88	3.55	.41
Iodine, Resublimed	4.55	4.55	4.55	4.05	5.00	3.75
Menthol	8.25	8.25	8.25	6.25	13.50	3.00
Morphine Sulfate	5.35	5.35	5.35	4.80	12.80	4.60
Potassium Bromide, Cryst. ....	.26	.26	.26	.23	4.30	.80
Quinine Sulfate, Imp. ....	.50	.50	.50	.58	.90	.25
Sodium Salicylate .....	.57	.57	.52	.32	4.25	.27
Strychnine Sulfate .....	.84	.84	.84	.76	2.05	.50
Average	2.24	2.24	2.24	1.94	5.92	1.56

The market in fine chemicals during the past week has remained steady and there has been a fair volume of trading, but without much snap. The foreign situation has strengthened all imported chemicals and, while the spot market has not changed materially, replacement costs are considerably higher. The higher shipment prices as a whole are the result of day-by-day trading, and not of speculation. With the increasing costs in foreign markets, the American makers continue to find themselves in a stronger position. Along certain lines, however, uncertainty of shipments from abroad, has somewhat curtailed trading. Some price advances by manufacturers have left cheap contract material in outsiders' hands and keen competition has resulted in price shading by first hands in one or two items.

Acid Acetylsalicylic—Position of resale stocks is strong owing to active buying. Still quoted at 95c@1.00lb. spot. Makers prices \$1.05@1.10lb.

Acid Carbolic—Supplies held in strong hands. Prices on various containers unchanged as follows: 110lb. tins,

47c/lb; 25lb. tins, 49c/lb; 5lb. tins or bottles, 51c@52c/lb; 1lb. bottle, 56c/lb; liquid U. S. P. 1lb. bottles, 55c/lb.

Acid Citric—Imported has advanced to 52c@53c/lb. spot. Limited quantities offered in New York. American makers have not increased prices as yet. Still quoting 49c and 50c/lb in bbls. Market is strong for both foreign and domestic. All orders are being scrutinized closely by makers as they seem desirous of keeping supplies within the hands of non-speculative interests.

Acid Salicylic—Little resale goods available at 48c/lb. spot. U. S. P. still quoted at 50c@52c/lb. spot. The phenol situation remains acute.

Acid Tartaric—Imported U. S. P. advanced and now quoted at 34c@35c/lb. spot. Not much offered spot at current prices. Futures are higher. Domestic makers have again advanced prices and now quote on a basis of 35c/lb. U.S.P. bbls. Demand is active both from consumer and speculative sources.

Amidopyrine—Spot goods continue scarce and now quoted at \$4.75@5.15lb as to seller. Import cannot be obtained for less than outside figure.

Antipyrine—Spot goods cannot be had for less than \$3.00@3.25lb. Swiss named 3 francs higher per kilo on shipment this week. Position very firm.

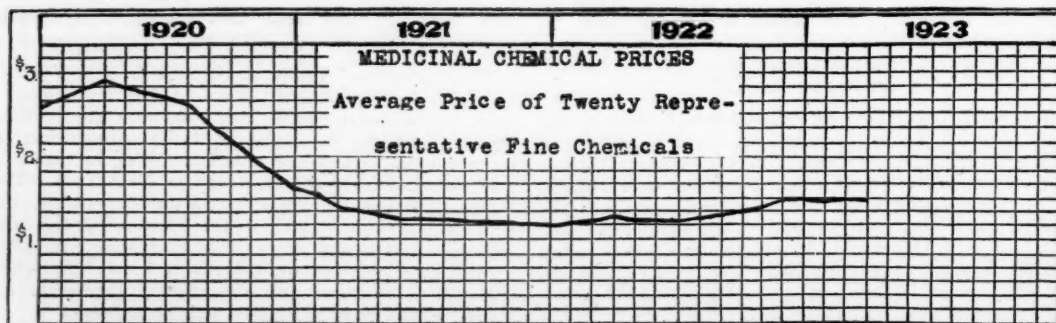
Bromides—Spot imported goods holding firm. Potash quoted at 16c@18c/lb., ammonium 18c@20c/lb., and sodium 20c@22c/lb. No cheap lots now on spot. Shipment stronger. American makers at 26c for potash, 25c for soda, and 33c for ammonium.

Chloroform—Drums quoted at 35c. spot. Resale large drums 32c/lb. spot.

Cod Liver Oil—Spot unchanged at \$21.75@23.00 bbl. for Norwegian non-freezing. Late advices from Norway report current catch as being a very good one and ordinarily a surplus supply would be created but the present low price makes it possible to forestall such a surplus by using the crude oil for industrial purposes and the market for medicinal oil remains steady.

Cream Tartar—Spot imported has advanced to 25½c@26½c/lb. Foreign position very strong. American 26½c/lb. During past week 69 cases were imported.

Creosote Carbonate—Has advanced on small stocks. Hundred pound lots selling at \$1.70lb. ranging up to \$1.90lb. as to quality.



Glycerin—All grades are soft. Dynamite at 16½c refiners, C. P. in drums lower at 18c; cans at 19½c.

Hexamethylene—Makers quote 95c/lb. while importers name higher at 80c/lb. spot.

Menthol—Has been very dull during the past week and shading has been reported. Named at \$8.15 spot cases, and \$8.00 for May arrival. Spot stocks larger, but held by strong hands. Small demand, but steady.

Mercury—Supplies seem ample on spot and market is slightly easier at \$70.00@\$72.00/lb. To arrive \$69.00/lb.

Petrolatum—Firm and good demand. Snow white at 13c/lb. Light amber 4¾c; cream 7c; dark amber 3¾c/lb.

Potassium Permanganate—Few spot goods available. Nominal quotations 25c@28c/lb. Quantities expected during April at 24c@25c/lb., duty paid. Demand active.

Sodium Benzoate—Scarce and good demand at 65c/lb. spot, with no contracts being made at this price.

Fine Chemical Notes

The Cuban sugar crop is estimated at 3,735,000 tons, according to "El Mercurio" of Havana. Previous estimates were 386,100 tons larger.

Belgium has levied a new excise tax on glucose made from starch and grains on a basis of 0.80 franc per hectoliter of saturated but unfiltered sirup at 1 degree density and 17½ degrees C.

The glucose trade is reported slow. Corn Products only operating 54 per cent, with its Kansas City plant shut down. Quaker Oats is operating above 70 per cent, its Cedar Rapids plant 100 per cent.

In order to import medicinal preparations into Esthonia a permit must first be obtained from the Board of Health, according to a recent Government edict. In addition a complete analysis of the composition of the material in question must be submitted.

An examination for Junior Chemist will be held by the U. S. Civil Service Commission, throughout the country, on June 20, to fill vacancies in the Departmental Service at Washington, D. C., at entrance salaries ranging from \$1,200 to \$1,800 a year plus the increase of \$20 a month granted by Congress.

Dr. J. T. McDonald, a retired Public Health Service official from Hawaii, is a visitor at San Francisco. He introduced the chaulmoogra oil treatment at the Molokai leper colony while stationed there and is firm in his belief that this treatment is a specific cure if received by young people in the early stages of the disease.

Thomas C. Craven, dealing in perfumery and patent medicines at 47 West st., New York, was held under \$20,000 bail last week, on a charge of conspiracy to defraud the Government. Prohibition agents accuse him of negotiating a sale of alcohol and Scotch whiskey. Craven held a permit to handle denatured alcohol.

The records in the Mennen case are being printed by the Federal Trade Commission, preparatory to taking an appeal from the decision of the Circuit Court of Appeals at New York, reversing the Commission's order directing the Mennen Co. to discontinue its practice of quoting discriminating prices between different classes of customers.

NAMES SPEAKERS FOR DRUG BANQUET

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Apr. 4.—A. Hosmer Smith, secretary of the American Drug Manufacturers' Association, has completed the program for the Twelfth Annual Meeting of the association to be held in New York, April 16 to 19. Speakers for the banquet are Senator Royal S. Copeland, New York; Lieut.-Governor George R. Lunn, New York, and former Senator Frelinghuysen, New Jersey.

Assistant Secretary of War Dwight F. Davis will address the convention on "Industrial Preparedness." He will be accompanied by Col. H. B. Ferguson, the army officer in charge of the entire War Department industrial preparedness program, and Major N. L. McDiarmid of the Office of the Surgeon General of the Army, who is responsible for that portion of preparedness related to the medical industry.

C. R. DeLong, chief of the Chemical Division of the Tariff Commission, will speak at the convention, and James J. Britt, chief counsel of the Prohibition Unit of the Treasury Department. William A. Durgin, chief of the Simplified Practice Division of the Department of Commerce, will read a message to the convention from Secretary of Commerce Hoover.

The Second Annual Convention of the United Medicine Manufacturers of America will be held at Atlantic City on April 17, 18 and 19. During the convention an address on the Food and Drugs Act will be made by a member of the Bureau of Chemistry, Department of Agriculture, and one on Congress versus Business will be delivered by a member of the House of Representatives. In addition to the regular association work the Convention Committee has arranged for a "Big Surprise Entertainment" for the evening of the eighteenth which they promise will be something different from the usual Convention routine entertainment.

May and Baker, Ltd., Battersea, London, have recently published a pamphlet enumerating the various chemical products which they manufacture. A few are as follows: Chrysophanic, diethylmalonic, molybdic, and succinic acids, arecoline hydrobromide, mercury ammonio-chloride, resin jalap, sodium citrate, sodium and potassium tartrate, butyl-ethyl-malonylurea, etc.

Canada's imports of drugs, medicinal and pharmaceutical preparations in January were valued as follows: From Britain \$60,591, United States \$73,333, other countries \$31,798, total \$165,722; compared with imports from Britain, \$69,414; United States, \$78,712; other countries, \$29,085; total, \$177,211, for January, 1922.

The production of potassium bitartrate (cream of tartar) amounted to 5,778,700 pounds in 1921, value \$1,630,100, compared with 4,854,550 pounds, value \$2,620,351, in 1919, an increase of 19 per cent in quantity, but a decrease of 38 per cent in value, and in unit value a decrease of from 54 cents to 28 cents per pound.

The New York Branch of the American Pharmaceutical Association will give a dinner in honor of Dr. H. H. Rusby, at the Hotel Pennsylvania, on Monday, April 16. Dean Rusby will be awarded the Remington Honor Medal. Hugo H. Schaefer is chairman of the Committee on Arrangements.

The Paige and Jones Chemical Co., of 248 Fulton st., New York, are seeking a location at Springfield, O.

The Crude Drug Market

Current Spot Quotations of Crude Drugs, page 883

CARAWAY AND CELERY SEEDS HIGHER

Spanish Aniseed Strong—New Imports of Arrowroot Offered—Broader Buying of Cascara Sagrada—Bayberry Wax Nominal—Buchu and Chamomiles Weak—Better Offers of Curacao Aloes

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced	
Arrowroot, St. Vincent, 1c lb.	Cinchona Bark, Red Quills, 5c lb.
Benzoin Gum, Siam, 5c lb.	Broken, 3c lb.
Calisaya Bark, 2c lb.	Elder Flowers, 1c lb.
Caraway Seed, Dutch, 1c lb.	Elm, Select, 1c lb.
Celery Seed, 1c lb.	Ipecac Rt., Powd., 10c lb.
	Senna, Half Leaf, 1c lb.
Declined	
Aloes, Curacao, 1/2c lb.	Gambier Gum, 1c lb.
Canella Alba Bark, 1c lb.	Linden Flowers, 4c lb.
Chamomile Flowers, Hung., 1c lb.	Quince Seed, 5c lb.
	Wormseed, Am., 1c lb.

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Aconite Root, U.S.P.	\$.35	\$.35	\$.40	\$.22	\$.90	\$.12
Buchu Leaves, Short. ....	.90	.92	.95	.95	4.00	.85
Cantharides, Russian.	1.75	1.75	1.75	2.50	9.00	2.10
Cocculus Indicus. ....	.08 1/2	.08 1/2	.08 1/2	.05	.85	.03
Ergot, Spanish. ....	.52	.52	.55	1.00	4.50	.54
Insect Powder, pure. ....	.70	.70	.75	.55	1.00	.28
Ipecac, Cartagena, powd.	2.10	2.10	2.00	2.00	4.50	1.35
Nux Vomica. ....	.06 1/2	.06 1/2	.07	.08	1.4 1/2	.07
Opium, gum.	6.75	6.75	6.75	5.50	30.00	5.06
Rhubarb Root, H. D. ....	.40	.40	.42	.85	1.75	.15
Tragacanth, No. 1, ribbon.	1.70	1.70	1.70	2.15	6.00	1.50
Wild Cherry Bk., thin nat. ....	.09	.09	.09	.09	.21	.07
Average	1.35	1.35	1.36	1.38	5.28	1.00

Movements in a number of the bigger items have broadened, thereby giving a semblance of greater activity to the market generally. A strong undertone and stiffly maintained prices, backed by higher replacement costs, are still prominent in the current situation. Some sellers report that within the past two days several products have moved in a big way, and that on an average the market has reached a higher level. Price revisions on the spot have been about equally divided between advances and declines. Where new stocks are offered there has been some disposition to shade prices, but the declines compared with the total number of firm prices are very few. Benzoin gum, anise, caraway, and celery seeds, cinchona bark and elder flowers are firmer. Canella alba bark, chamomile flowers, gambier gum, quince and worm seeds are easier.

Aloes—Cape at 9 1/2c@10c lb. spot. Curacao easier spot at 8 1/2c@9c lb., and beginning to be offered more freely at the source.

Agar Agar—No. 1 in bales quoted at \$1.95 lb. with small stocks.

Aniseed—Spanish is holding firm at 27c@28c lb spot, with replacements higher. Star at 14 1/2c@15c and quiet thereat.

Arabic Gum—Unchanged and easy at 15 1/2c@16c lb. for amber sorts.

Arnica Flowers—Quiet and in limited demand at 10c@11c lb. spot.

Arrowroot—During past week 58 bales of St. Vincent were imported and, as long as it lasts, 15 1/2c@16c lb. spot is quoted.

Balsams—For Fir Oregon \$3.75 lb. is quoted for such small quantities as can be had. Peru is dull at \$1.80@ \$1.85 lb. Tolu remains unchanged but very firm at 85c@90c lb. spot.

Bayberry Wax—This item is practically off the market, small quantities here and there procurable at 50c@55c lb. As fresh supplies will not become available until late fall, it looks as though this article might disappear from the spot market temporarily.

Benzoin Gum—Siam has advanced and now selling at \$1.15@1.20 lb. Sumatra still quoted at 30c@32c lb. spot.

Belladonna—Root quoted at 12c@13c lb. Leaves can be had at 17c@18c lb. spot.

Buchu Leaves—Market is dull and weak at 90c@95c lb. Demand very small.

Calisaya Bark—Has advanced and now selling at 18c@20c lb. spot.

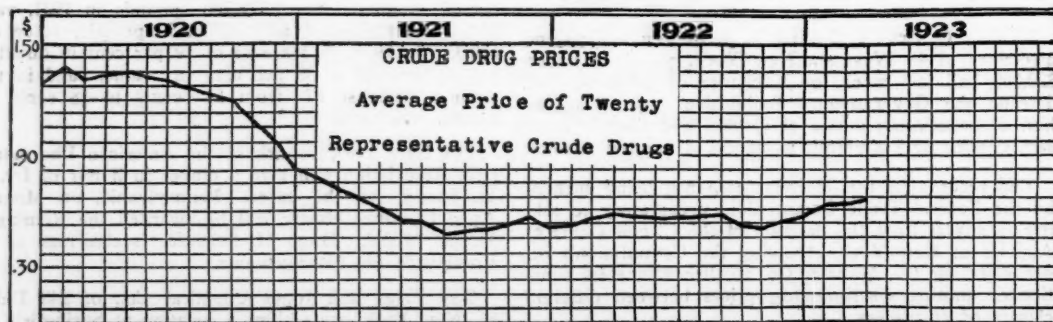
Cantharides—Russian powdered now quoted at \$1.90 @ \$2.05 lb. spot. Chinese quoted at \$1.05 lb. in cases and \$1.25 lb. powdered.

Caraway Seed—Made another advance and Dutch now quoted at 32c@33c lb. spot. Increase is in line with higher shipment costs.

Cardamom Seed—All grades are holding firm and indications are for considerably higher prices. Bleached range \$1.00 to \$1.70 and green grinding at \$1.05 lb.

Cascara Sagrada—Several large sales reported last week. Spot steady at 14c@14 1/2c lb. for 1922 peel and 14 1/2c lb. for 1921.

Celery Seed—Advanced and now quoted at 24c@24 1/2c lb spot. Market holding firm owing to higher replacement costs abroad.



Chamomile Flowers—Hungarian eased off at 15c@17c. spot as to seller and quality.

Cinchona Bark—Quoted higher at 55c@60c. for quills. Broken at 19c@20c.

Cumin Seed—Eased off at 26½c@28c. spot with demand light and stocks better.

Elm Bark—Powdered in good demand at 16c@17c. spot. Selected firmer.

Ergot—Market unsteady owing to uncertainty of stocks abroad. Demand here light with prices soft. Now quoted at 52c@55c. spot bags.

Gambier Gum—Easier at 10½c@11c. spot.

Ginger—All grades are strong and tendency is still toward higher prices. Jamaica as to quality quoted at 37c@44c. spot; African at 15¼@16c., and Japan at 15½c.

Insect Powder—Firm but in light demand with pure quoted at 70c@75c. as to seller.

Lycopodium—In fair demand but soft. Offered at 35c@40c. spot 22lb. packets.

Nux Vomica—Buttons are quoted at 6½c@7c. in bags. Last week 423 bags were imported. Powdered quoted at 11c@11½c. spot.

Sarsaparilla Root—Mexican of good quality can be had at 26c@28c. spot.

Vanilla Beans—Bourbon higher at \$3.50@\$4.00lb. spot owing to reports fairly large sales in primary markets. Mexicans are still very scarce on spot and hard to locate. With prospects for another small crop and this mostly sold ahead, short stocks are expected for some time to come.

A decision has been handed down by the United States Court of Customs Appeals in case No. 2220 of McKesson & Robbins, Inc., against the United States. The importers claimed allowance for shortage in a case of opium as reported by the appraiser. The collector assessed full duty on the case, as it was reported by the discharging inspector as landed in good order. The Board of General Appraisers overruled the protest of the importers, and the decision of the Board has now been overruled. The decision was handed down by Associate Judge Hatfield.

The Government of Indo-China will be permitted to purchase only 80 metric tons of opium per year instead of 120 tons heretofore permitted at the rate of about \$3.44 per kilogram, according to official advices received by Col. L. G. Nutt, chief of the U. S. Narcotic Forces. "It is understood the sale of 80 tons is to be made direct by the Government of Yunnan to the Government of Indo-China," said Colonel Nutt. "This is another very significant step in favor of the curbing of the world-wide opium traffic."

The exportation from British India of the derivatives of opium, such as medicinal opium, morphine, cocaine, and their respective salts, and heroin, is restricted to cases in which the consignment to be exported is covered by a certificate issued under the authority of the Government of the country of destination. This order became effective Jan. 1.

Available supplies of narcotics would have been exhausted by the middle of May, according to A. Homer Smith, secretary of the American Drug Manufacturers Association at the conference which led to the lifting of the embargo, last week.

COMPLETE FIGURES ON JAVA QUININE EXPORTS SHOW HEAVY DECLINE IN 1922

British India and Italy Biggest Importers—Holland Increases Her Imports of Cinchona Bark—Average Market Price for Quinine Slightly Reduced

Amsterdam, Holland, March 24.—A decline in the exports of quinine salts from Java in 1922 is shown in Government reports. In 1920 the amount exported was 310,351 kilos, and in 1921 281,578 kilos, but last year only 124,589 kilos were shipped. Direct exports to the United States fell from 30,923 kilos in 1920, and 9,532 kilos in 1921, to nothing last year.

British India and Italy are the biggest importers of the quinine output of Java, having taken 30,954 and 30,067 kilos respectively, in 1922, against 34,564 and 41,600 kilos in the preceding period, whereas Holland imported 23,115 kilos and Japan 11,871 kilos. The following figures give the exports of the Bandoeng Quinine Works in Java for the years 1913 to 1922:

Year	Kilos	Year	Kilos
1913	72,507	1918	252,636
1914	61,964	1919	640,283
1915	82,869	1920	310,351
1916	115,175	1921	281,578
1917	129,890	1922	124,589

The amount of cinchona bark exported from Java shows a rise over the last two years, the figures being: 1920, 4,526 metric tons; 1921, 4,636 tons; 1922, 6,617 tons. Holland provides the biggest market, having imported 5,008 tons, compared with 2,962 tons in 1921 and 3,350 tons in 1920. British India increased her imports from 39 tons in 1920, and 348 tons in 1921, to 613 tons during last year. Japan took, 749 tons in 1922, compared with 779 tons in 1921 and 473 tons in 1920, whereas Great Britain's imports amounted to 245 tons only, against 530 and 643 tons in 1921 and 1920, respectively.

The importance which the cinchona bark export trade has assumed during the last decade is shown in the following table:

Year	Metric tons	Year	Metric tons
1913	9,393	1918	2,439
1914	6,844	1919	5,404
1915	5,873	1920	4,526
1916	8,845	1921	4,636
1917	2,842	1922	6,617

The Director of Finances in the Dutch East Indies has reduced the average market price for quinine, as calculated for the payment of export duties, from 10.8 cents to 10.7 cents per unit. This decision was made on Jan. 5, and came into force on Jan. 10.

Charges that narcotics were allowed to "leak" out of Government warehouses were made by Col. L. G. Nutt, chief of the Federal field narcotic force, at the conference between the Federal Narcotics Control Board and importers and manufacturers.

Positions for inspector and for agent under the anti-narcotic act are open, and the U. S. Civil Service Commission, Washington, will receive applications until May 15.

Dr. E. L. Maines has joined the staff of J. L. Hopkins & Co., crude drug merchants, New York, as chief chemist and superintendent.

Jungmann & Co., 150 Nassau st., have moved to larger quarters at 58 White st. New telephone number is Canal 6345.

The Essential Oil Market

Current Spot Quotations of Essential Oils, page 885; Aromatic Chemicals, page 886

OILS PEPPERMINT AND CASSIA ADVANCE

Peppermint Strengthens After Weakness As Country
Stiffens Prices—Spring Planting at Hand—U.S.P.
Cassia Again Higher—Wormseed Advances Sharply
—Buying Falls Off in Quiet Market

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced	
Oil Bay, 5c lb.	Oil Peppermint, Nat., 10c lb.
Oil Cassia, redistilled, 15c lb.	Oil Pimento, 5c lb.
Declined	
Oil Bergamot, 10c lb.	Oil Orange, W. Ind., 10c lb.
Oil Lemon, 2½c lb.	Sicilian, 5c lb.
Oil Lemongrass, 5c lb.	

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Oil Bergamot	\$2.50	\$2.60	\$2.60	\$4.90	\$7.00	\$5.00
Oil Citronella, Ceylon	.71	.70	.72	.55	.92	.60
Oil Cloves	1.80	1.80	2.00	2.15	3.70	1.40
Oil Lemon	.72½	.75	.70	.85	1.70	2.00
Oil Peppermint, Nat.	2.75	2.65	2.85	1.70	9.00	2.25
Oil Sandalwood, E. I.	7.85	8.00	7.50	7.25	13.00	5.25
Oil Sassafras, Artif.	.42	.42	.42	.46	1.00	.26
Benzaldehyde, U.S.P.	1.40	1.40	1.40	1.40	5.15	1.50
Coumarin	4.50	4.50	4.00	3.15	31.00	3.10
Methyl Salicylate, Cans.	.62	.61	.57	.35	1.00	.96
Vanillin	.40	.40	.41	.35	.95	.29
Average	2.15	2.17	2.12	2.15	6.83	2.05

A quiet period has been noted during the past week and a smaller volume of goods has changed hands. However, on the whole, prices remained steady with a strong tendency for higher shipment figures in many primary markets. Actual changes have been confined to a few items, the list in general remaining more or less dormant. Oil peppermint advanced after a formerly noted weakness. Cassia, redistilled, has advanced again this week. Citronella is holding firm on higher shipment figures with very little supply in outside hands. Both lemon and orange have eased off on spot. Some dealers are sharply higher and asking up to \$5.25lb. for wormseed.

Oil Anise—The demand is mostly of jobbing character with spot goods easier at 45c@50clb. U.S.P. at 52½c@55clb. spot.

Oil Bay—Has advanced to \$2.50@2.60lb. spot.

Oil Bergamot—Reacted and now selling at \$2.50@2.65lb. for spot coppers. Last week 165 cases were imported.

Oil Caraway—U.S.P. quality quoted at \$5.25 all the way to \$6.00lb. spot as to seller.

Oil Cardamom—The price of \$20.00@22.00 for U. S. P. still rules. The past week saw 29 cases imported.

Oil Cassia—Redistilled has advanced again, and is now quoted at \$2.50@2.75lb. Some sellers refuse to entertain the inside price as a minimum. Sustained strength here is due to higher replacement costs in China.

Oil Citronella—The foreign market is very firm for Ceylon, while sellers here are of different opinions just what the prices are. Some are quoting 70c, and others say that 72c and 73c is inside. The general average is 71c@73clb. in drums, and 85c@87½clb. spot for Java goods.

Oil Cloves—Still quoted at \$1.80@1.90lb. spot. Quiet and steady.

Oil Geranium—There is not much Bourbon available but what there is shows no change at \$6.50@6.75lb. spot. Algerian scarce at \$8.00@8.50lb.

Oil Lemon—Lemon went off slightly from last week's price and is now freely quoted at 72½c@82½clb. spot. There are odd lots at a little better figure, but these are held mostly by weaker hands. American still quoted at 80c@85clb. spot. There were 68 cases imported last week.

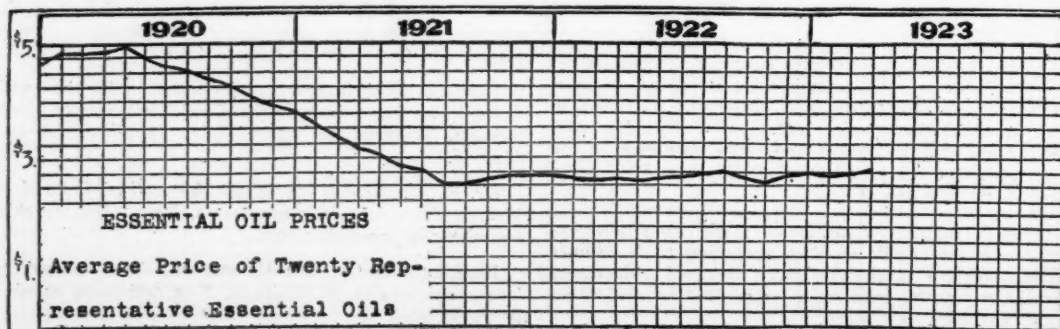
Oil Lemongrass—Eased off and now selling at 80c@85clb. spot.

Oil Orange—The rise for this oil appeared to be too rapid, thereby causing a slight reaction. However, the general tendency is to creep to higher shipment prices. Sweet West Indian is now quoted at \$2.50@2.60lb. Italian eased off to \$2.75@2.85lb. spot. American quoted at \$2.85@2.95lb. Twenty-five cases of Italian came in at New York last week along with fifty-three cases of West Indian.

Oil Peppermint—Has recovered from low of \$2.50lb. and is now quoted at \$2.75@2.85lb. spot for natural. The rise appears somewhat unusual in view of the fact that spring planting is approaching. It seems the growers have changed their minds and decided to hold for better prices. Redistilled is holding at \$2.95@3.05lb., while some are asking \$3.00 as inside.

Oil Pimento—Higher and now quoted at \$1.95@2.00 lb. spot.

Oil Wormseed—Spot goods have advanced to \$4.75@4.85lb. Stocks appear to have been held up for better prices, thereby causing the spot market to take an



upward turn. Some dealers are quoting as high as \$5.25 lb., while others name \$5.00lb. The demand continues routine.

Aromatic Chemicals

Benzyl Acetate—Price ranges from \$1.25 to \$1.40 according to seller and quality. Six drums came in at N. Y. last week.

Benzyl Benzoate—Has advanced and is now selling at \$1.75@1.85lb. spot for medicinal.

Coumarin—Still maintains price of \$4.50@4.75lb. spot.

Methyl Salicylate—Makers are in accord at 60clb. in drums and 62clb. in cans. Second hand resale lots can be had at 55clb. spot.

Terpineol—Holding steady at 53c@55clb. in drums and 58c@60clb. in cans. Imported still quoted at \$1.00 @ \$1.25lb. spot.

Vanillin—Market easy at 40c@40½c oz. Competition very keen among makers, one producer reported hammering prices to a point out of line with clove oil costs and demoralizing vanillin business.

STATES MAY TAX COSMETICS HEAVILY

Legislation taxing cosmetics in Kansas, W. Virginia and Pennsylvania is criticised in a circular issued by Frank K. Woodworth, business manager of the American Manufacturers of Toilet Articles, Kansas and Pennsylvania propose a tax on all perfumes, cosmetics and proprietary medicines and a definition of the term "cosmetics" in the Kansas act, has a wide range which covers practically any toilet article. The proposed tax in Kansas would be should the act pass, ten per cent of the retail price, whether the manufacturer was in the State or without, and would provide for the registering by the State of dealers and the collection of the taxes.

The Pennsylvania bill, while not nearly so drastic as the Kansas act, would tax toilet articles at the rate of one cent for each twenty-five cents sale or fraction thereof. The passage of this bill, Mr. Woodworth holds, would put more onerous duties upon the industry as all dealers would be obliged to report quarterly to the auditor-general the amount of tax on each article handled by him. He is also subject to have his books examined pertaining to the business made taxable by the act. The West Virginia act, according to Mr. Woodworth, is more drastic than the National Pure Food and Drug Law, and provides for defining adulteration and mis-branding.

The American demand for foreign perfumery and cosmetics was 35 per cent greater for the 11 months of 1922 than in the corresponding period of 1921, imports reaching a value of \$7,321,534, against \$5,390,213 in the preceding year. From September 22 to November 30, 1922, imports of perfumery aggregated \$715,566 (representing 313,626 pounds); of bay rum, toilet waters, and floral waters, \$21,001 (62,834 pounds); of perfume materials, \$623,410 (quantity not stated); and of cosmetics, powders, creams, etc., \$187,673 (297,321 pounds).

The Collector of Customs, New York, recently held up lithographed perfumery labels not marked to indicate the country of origin because they are not marked individually in accordance with the present tariff law. The Collector has decided finally however, that the marking of the package is sufficient in this case and the Assistant Secretary of the Treasury in charge of Customs has acquiesced in this opinion.

**TOILET GOODS COMMITTEE CONDEMNS
TARIFF AS PARTIAL TO FOREIGNERS**

Warren Burns, R. B. Stoddard and V. Vivaudou, Tariff Committee, Review Tariff Troubles at Dinner of Perfumery, Soap and Allied Industries—No Intention to Go Over Head of Parent Body, Says Vivaudou

That the present working of the Fordney-McCumber Tariff is eminently unfair to American makers of toilet goods, was the consensus of opinion of the Tariff Committee composed of Warren Burns of Morana, Inc.; Russell B. Stoddard, of Ungerer & Co., and Victor Vivaudou, expressed at a dinner of the Perfumery, Soap and Allied Industries at the Hotel Astor, New York, March 28th. The committee recommended that an appeal be made to Washington through the American Manufacturers of Toilet Articles, the parent organization, for a fifty per cent reduction in raw material duties in accordance with the flexible provisions of the tariff act, and stated that it believed the chances of success to be good.

Victor Vivaudou, who was accused of going over the head of the national toilet goods association in the tariff fight, gave the lie to this and said: "I can hardly understand that any intelligent business man can believe that this organization, composed as it is almost entirely of members of the American Manufacturers of Toilet Articles, could have considered for a moment acting independently in such a question affecting the whole industry." Mr. Vivaudou said that the aim of the local New York body was and always has been to carry its recommendations to the national organization for action.

R. B. Stoddard outlined the tariff with emphasis on the high duties on semi-finished compounds and products coming under American valuation. He mentioned undervaluing under Paragraph 61, and products that should pay 75 per cent and which really pay 50 per cent duty when brought in by foreign perfumers for final mixing here. The semi-finished compounds cannot be undervalued in this way, he pointed out. Mentioning instances where the American duty amounted to 115 to 180 per cent of the actual selling price abroad, he cited the case of phenylethylalcohol. He stated that this sells for \$3 abroad and carries a duty of \$5.17. He also advised appealing through the flexible provisions of the tariff to the Tariff Commission and Secretary of the Treasury for a 50 per cent reduction in rates on many of the raw materials, which appeal might have a fair possibility of success.

Not only are the American makers of toilet goods suffering from high duties on raw materials, said Warren Burns of Morana, Inc., when he spoke, but from excessive rates on cans, bottles, labels, boxes and the like, which, in reality, are more of a hardship than the high cost of essential oils and compounds. Dr. Max Eiserman, of Van Dyk & Co., defended the tariff rates as necessary for the American maker. Dr. L. Jenkel, of Denney & Denney, Philadelphia, stated that 99 per cent of all perfume raw materials imported were highly adulterated and that the American perfumer did not know the difference. He also mentioned the "distillation" of oil bergamot. Mr. Burns replied to Dr. Jenkel on the quality of imported raw materials. President Miles of Cheramy, Inc., presided.

Exports of toilet articles during January were as follows: Perfumery and toilet waters, \$46,571; talcum and other powders, \$110,212; creams, rouges and other cosmetics \$82,555; dentifrices, \$173,047; and other toilet preparations, \$63,158.

The Consuming Industries

The Nelson Cotton Mill Co., Whitnell, N. C., is erecting a cotton mill.

Pioneer-Pacific Worsted Co., Los Angeles, Cal., has purchased a 25-acre site for a \$2,000,000 mill.

The Tucker Mfg. Co., is to establish a \$250,000 plant at Paducah, Ky., to make chemicals for the textile trade.

The Hobarton Mfg. Co., Concord, N. C., has recently been incorporated for \$400,000 to weave cotton and fancy goods.

North Carolina has more textile mills than any State in the Union, according to M. L. Shipman, State Commissioner of Labor.

Katanol, a substitute for tannin, has been developed by F. Bayer & Co., Germany, for the fixing of basic dyestuffs on cotton fibre directly.

A company has been organized by R. K. Wooten and R. M. Simmons, of Abilene, Texas, to build a cotton oil mill estimated to cost \$350,000.

The Pacific Cellulose Co., Inc., has begun the manufacture of artificial silk in its new plant at Walnut Creek, Cal. The company is capitalized at \$250,000.

Canada's imports of artificial silk for the nine months ending with Jan. 1, 1923, were valued at \$1,600,000. No artificial silk is manufactured in Canada.

The Pacific Mills, Lawrence, Mass., are building a bleaching and finishing mill with capacity of 1,250,000 yards weekly of wide and narrow goods, on recently acquired property at Spartanburg, S. C.

The Commonwealth Institute of Science and Industry of Geelong, Australia, has recently completed important tests on the possibilities of using Tasmanian timbers for the manufacture of paper pulp.

A new china and dinnerware manufacturing plant, to cost \$2,000,000 and employ at least 1,000 persons with an annual payroll of approximately \$1,000,000, will be under way in Los Angeles within six months.

The Amoskeag Manufacturing Co., of Manchester, N. H., Pacific Mills, of Lawrence, Mass., and the Nashua Manufacturing Co., Nashua, N. H., have increased wages 12½ per cent, effective April 30.

Armour and Co. have taken over Morris and Co. without waiting for the final determination of its legality by the Government, the negotiations having progressed to a point that made further delay impossible.

The Chamber of Commerce of Marshville, N. C., has recently secured a \$100,000 cotton mill. S. M. Robinson, Lowell, Mass., has promised to become actively interested, providing the citizens of Marshville subscribe their share of the stock.

The Alma Mills, Cherokee Weaving Mills, Gaffney Knitting Mills, Gaffney Manufacturing Co., Globe Manufacturing Co., Hamrick Mills, Irene Mills, Limstone Mills, Musgrove Mills and Palmetto Damask Mills, all of Gaffney, S. C., increased wages 10 per cent effective April 2.

The visible supply of American cotton amounts to 2,860,000 bales, only, compared with 3,987,000 at this time last year. Since Aug. 1 about 9,200,000 bales have been brought to light, whereas the United States estimate of the yield was 9,900,000 bales, not including linters. Cotton consumption by textile mills in January was the largest in history, totaling 610,375 bales.

James A. Goldsmith, president of Hess, Goldsmith and Co., was re-elected president of the Silk Association of America for a third term at the meeting of the board of managers following the annual meeting of the association on March 28, at which L. A. Yerkes, president of duPont Fibersilk Co., presented a report on artificial silk.

The American Brass Co. and the Anaconda rolling mills are producing for the first three months of this year at the rate of nearly 700,000,000 pounds per year compared with 480,000,000 pounds for the first quarter of 1922, an increase of nearly 50 per cent.

A company is being organized to build a silk mill at Shinglehouse, Pa., estimated to cost \$175,000.

New Consuming Companies

Drug Products, Inc., Wilmington, Del., \$200,000. Manufacturing of medicines, toilet articles, etc.

American Drug Co., Wilmington, Del., \$1,000,000. Manufacture and sale of medicines.

N. S. M. Research Corp., New York, chemists, \$10,000. F. K. Fairchild, H. G. Samson, W. H. Smith.

Industrial Cotton Mills, Eagle Lake, Texas, \$1,000,000. G. W. Keith, B. H. Faber, J. G. Thomas.

Stanhoppers Chemical Laboratories, Brooklyn, \$15,000. C. G. Unger, M. Kupfer, M. L. Nathanson.

Drug Products, Wilmington, toilet articles, \$200,000.

Merveille Puff and Cosmetic Co., New Rochelle, toilet articles, \$10,000. A. Guesch, F. Mitchell, W. S. Briefer.

Ortho Mfg. Co., New York, chemists and druggists, \$7,000. S. B. and N. T. Shields, Jr.

Advance Paint Co., New York, to make chemicals and dyes, \$10,000. R. G. and J. Heller, B. Siegel.

Buss the Chemist, Brooklyn, \$30,000. J. Buss, J. Katz, R. Lifton; attorney, A. Lehman, 44 Court st., Brooklyn, N. Y.

Joseph & Cull, Manhattan, \$100,000. Silk mills. H. I. Joseph, J. H. Cull, B. D. Goldberg; attorney, W. S. Doernberg, 1133 Broadway, New York.

Rollstone Paper Co., Fitchburg, Mass., \$300,000. Paper. Geo. W. Wheelwright, Geo. W. Wheelwright, Jr., of Boston, Louis T. Stevenson of Pittsfield and Henry M. Wheelwright of Newton.

Lawrence Beverage Co., Lawrence, Mass., \$10,000. Soft drinks. Battist P. Pagliuso, Paola P. Pagliuso and Pietro Furnari of Lawrence.

Newton Pharmacy, Inc., Boston, Mass., \$10,000. Pharmacy. Dennis F. O'Connor of Malden, Arnold L. Foster of Somerville and Anna M. McDonald of Boston.

William Lovering & Co., Inc., Taunton, Mass., and New York, N. Y., \$400,000. Textiles. William M. Lovering of Taunton, Howard V. Foulke of Cambridge and George C. Scott of Medford.

The Elastic Specialty Co., Brockton, Mass., \$24,000. Elastic and leather goods. Alton W. Williamson of Norton, Sarah E. Curran of Brockton and Mary Brown of Taunton.

John D. Lynch Drug Co., Cambridge, Mass., \$25,000. Drugs and medicines. John D. Lynch, Thomas W. Lynch and Ellen Gertrude Lynch, of Cambridge.

Progressive Color & Chemical Co., New York, \$100,000. G. A. Kuhl, H. Hintze, H. Felix. Attorney, O. Oechler, 481 Knickerbocker ave., Brooklyn.

Hygeia Beverage Co., Manhattan, \$5,000. J. J. Claason, W. G. Meyer, C. Vetter. Attorney, M. S. Adler, 125 East 59th st., New York.

Briarcliff Laboratories, Ossining, N. Y., \$5,000. To make toilet preparations. W. Stoerner, L. Cremin. Attorney, H. C. Gerlach, Ossining.

Dunn Dental Cement Co., Dover, Del., \$50,000. Manufacture remedies. Carroll S. Marsden, E. Lansdowne, Pa., Richard S. Miller, Charles F. Miller, Phila. (Colonial Charter Co.)

The Foreign Markets

Import of Drugs and Chemicals, page 887

FOREIGN EXCHANGE

	Par	Current
Great Britain (pound sterling)	\$4.886	\$4.67%
France (franc)	.193	.066
Italy (lira)	.193	.050
Germany (mark) per hundred	23.80	.004
Czechoslovakia (crown) per hundred	20.30	.029
Poland (mark) per hundred	23.80	.002
Japan (yen)	.499	.484
Spain (peseta)	.193	.155
Holland (guilder)	.402	.393
Belgium (franc)	.193	.057
Switzerland (franc)	.193	.184
Sweden (crown)	.268	.266
Denmark (crown)	.268	.191
Argentina (peso)	.424	.370
Brazil (milreis)	.279	.110
China (Silver dollar—Hongkong)	.789	.562
(Tael—Shanghai, silver)	1.082	.766
(Tael—Peking, silver)	1.156	.793

Foreign Trade Opportunities

The Department of Commerce, Washington, D. C., has received the following inquiries for drugs, chemicals and accessories. Reserved addresses may be obtained from the Bureau and its district and cooperative offices. Request for each opportunity should be on a separate sheet and state opportunity number. The Bureau does not furnish credit ratings or assume responsibility as to the standing of foreign inquirers; the usual precautions should be taken in all cases.

5723—Powdered milk—Austria—Agency. Quotations, c.i.f. Hamburg or Trieste. Terms: Cash upon arrival of goods, guaranteed by bank.

5727—Bicarbonate of soda—Denmark. Purchase.

5729—Chemicals, drugs, oils and other raw materials—Italy. Agency. Quotations, c.i.f. Italian port.

5730—Chemical for the manufacture of paints—Norway. Agency.

5732—Carbon black—Norway. Agency.

5783—Pharmaceutical, industrial and liquid petrolatum, in quantities of from 5 to 20 barrels at a time—Belgium. Agency. Quotations, c.i.f. Antwerp. Terms: Cash against documents.

5802—Condensed, evaporated and powdered milk—Germany. Purchase or agency.

5804—Exhausted cloves—India. Purchase. Quotations, c.i.f. Indian port. Terms: Payment against documents.

5822—Chemicals, such as salt cake, bleaching powder, aluminum sulfate, soda ash and caustic soda; sulfur and rosin—Finland. Agency and purchase. Quotations, c.i.f. ports of Finland. Terms: Net cash against documents.

5823—Ground sulfur for agricultural purposes—Canada. Purchase. Quotations, f.o.b. Canadian port.

5824—Sulfur—Dutch East Indies. Purchase. Quotations, c.i.f. East Indies Port.

5826—Tannic acid—Spain. Purchase. Quotations, c.i.f. Spanish port.

5828—Jelly white petroleum, refined paraffin wax, liquid paraffin, white oil for cosmetics, medicinal oils, essential oils, cornstarch powder and drugs in general—Czechoslovakia. Purchase. Quotations, c.i.f. Hamburg.

5860—All sorts of licorice articles—Norway. Purchase. Quotations, c.i.f. Norwegian port.

5863—Sweetened and unsweetened condensed milk, skimmed and unskimmed, and powdered milk, skimmed and unskimmed, but 100 per cent soluble in cold water—Austria. Agency. Quotations, c.i.f. Austrian destination. Terms: Payment in New York upon arrival of goods in Austria. Correspondence, German or Dutch.

5880—Animal vaccines against anthrax, symptomatic anthrax, tuberculosis, hog cholera; animal biologics in general; veterinary instruments, syringes and needles for vaccination—Chile. Agency. Quotations, c.i.f. Talcahuano. Correspondence, Spanish.

The Finnish Government plans to organize a company to operate the sulfuric acid and superphosphate factories, completed last fall, in which the state will own a majority of the stock. The first phosphate rock shipment, received some time ago, totaled 6,000 tons from Florida.

LEMON OIL HIGHER IN LONDON

Advances Announced on Castor Oil, Cloves, Phenazone and Phenacetin—Menthol, Camphor and Mint Oil Easier

(Special Cable to DRUG & CHEMICAL MARKETS)

London, April 4.—The tone of the markets since the holidays has been strong. Higher prices are announced on castor oil, cloves, oil of lemon, phenazone and phenacetin. The quotations on menthol, Japanese camphor and Japanese mint oil are easier.

London, March 22 (By Mail)—Business continues quiet, but prices remain remarkably firm and there is a disposition to mark up values even without the stimulus of orders. The Continent, notably Germany, sends fewer orders than for some time, presumably on account of speculation and higher prices now ruling there than those obtainable here. Cod liver oil is easier on more favorable reports of fishing. Benzoate of soda, salicylate of soda, hexamine, paraformaldehyde and barbitone are quoted higher, with only a small inquiry.

Eucalyptus oil. There has been more enquiry for B. P. quality and over at 1s7½d to 1s8½d per lb.

Vanilla—At the Drug Auctions practically everything found buyers at somewhat higher prices for good quality.

Camphor, Refined Jap Slabs, have eased off to 3s9d per lb, the forward c. i. f. price for present shipment being 3s5d per lb.

Potassium Permanganate is quoted at 8½d per lb, being dearer.

Hexamine is 4s 3d per lb, with upward tendency.

Strychnine manufacturers now quote: Acetate, 3s 10d per oz; bisulphate, 3s2d per oz; hydrochloride, 3s7d per oz; sulfate, 3s4d per oz.

Sodium Salicylate is dearer at 2s6d per lb, and in the absence of importations will doubtless go higher.

Ergot—Isolated sales are reported at 2s to 2s1d per lb for grain similar to Russian.

Acetic Acid—Owing to diminished stocks and only small arrivals from the Continent the price advanced to £48 for 80 per cent, and Glacial £70 per ton on spot.

WILL MAKE COAL-TAR PRODUCTS

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Berlin, Germany. March 24.—The Rossleben-Bergin Co. with a capital of seventy-five million marks, has been formed for the exploitation of the Bergin system of extraction of coal-tar products by the Gesellschaft fur Teerverwertung (Coal-tar company), the Riedel Co. and the Erdol und Kohlenverwertungs Gesellschaft (Oil and Coal By-products Co.). The Gesellschaft Teerverwertung includes the leading coal mines and coke works in Westphalia. New works are being erected at Rossleben in connection with the Tetralin Gesellschaft, a sister company of the Riedel, in which the coal tars from Meiderich are to be worked up. The Gesellschaft fur Petroleum-industrie, Berlin, is largely interested.

Prices Current of Fine and Heavy Chemicals, Drugs, Essential Oils, Dyestuffs and Oils

CLASSIFICATION—Prices quoted herein are listed in the following groups: **Chemicals**, including heavy and technical chemicals, fine and medicinal chemicals, aromatic chemicals and isolates, crudes and intermediates from coal-tar, various fine alkaloids, and miscellaneous products; **Crude Drugs, Essential Oils**, including oleoresins; **Fatty Oils**, including Animal, Vegetable and Fish Oils, Greases, Fats, and Tallow; **Tanning and Dye Extracts**, including miscellaneous natural tanning woods, extracts, etc. All groups are arranged in straight alphabetical order.

Packages—Prices are for large quantities in original packages of the customary trading units of weight or measure. A container given in connection with a price does not necessarily mean that this is the quantity on which the price is based. Containers named are the original packages most commonly sold in this market.

QUOTATIONS—Chemical prices quoted herein are those of American manufacturers unless otherwise specified. Quotations on imported chemicals are so designated. Where resale or "second hand" stock of any chemical product are sufficient to be considered a factor in determining the market, prices for goods in this class will be quoted in addition to makers' prices available, and indicated as such. Chemical prices quoted

herein are for goods spot New York or Metropolitan District, f. o. b. or ex-store, for immediate shipment, unless otherwise specified. Numerous domestic-made heavy or industrial chemical products are sold principally on a basis of f. o. b. works, and are thus quoted in the list herein, each instance of a "works" price, however, being specified as such.

Fatty Oils prices quoted herein are for goods spot New York unless otherwise noted; f. o. b. mills and Coast prices being designated as such. Crude Drugs and Essential Oils are quoted f. o. b. New York (Manhattan with limitations) for immediate shipment. Tanning and Dye Extracts are quoted spot New York unless otherwise noted.

WEIGHTS AND MEASURES—All quotations are made on a basis of avoirdupois pounds and ounces, and American gallons. The following equivalents are given for the reference of exporters, importers, and foreign buyers:

1 Imperial Gallon (British)	—1.20 American Gallons
1 American Gallon	— .833 Imperial Gallon
1 American Gallon	—3.79 Liters
1 Liter	— .264 American Gallon
1 American Gallon (Water)	—8.35 Pounds
1 Pound (Avoirdupois)	— .454 Kilograms
1 Kilogram	—2.20 Pounds

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Chemicals

ACETANILID, tech. 150 lb bbls.27	.38
100 lb kgs.28	.30
USP 200 lb bbls.35	.38
Second Hands . . . . .	.34	.35
Acetic Anhydride, 85% 450 lb drs. . . . .	.38	.38
85%, 107 lb chys. . . . .	.38	.38
92-95% 100 lb chys. . . . .	.41	.41
Acetone, CP 700 lb drs. c/l wks. . . . .	.22	.22
700 lb drs. lc/l wks. . . . .	.22 1/2	.22 1/2
350 lb drs. lc/l wks. . . . .	.22 1/2	.22 1/2
Second Hands, spot. . . . .	.30	.30
Acetone Oils, light, bbls. . . . .	.90	.95
Heavy, bbls. . . . .	.90	.95
Acetophenone, CP 1 lb bot.	4.00	4.25
Acetophenetidin, 150 lb bbls.	1.85	1.95
Acetyl Chloride, 100 lb chys. . . . .	.58	.58
ACID, 1, 2, 4, 250 lb bbls. . . . .	. . .	1.30
Acetic, 28%, 400 lb bbls. c/l wks. . . . .	. . .	3.17 1/2
28%, lc/l wks. . . . .	. . .	3.42 1/2
80% pure bbls. c/l wks. . . . .	. . .	6.35
58%, lc/l wks. . . . .	. . .	6.60
70%, bbls. c/l wks. . . . .	. . .	7.94
70%, lc/l wks. . . . .	. . .	8.19
80% coml. bbls. c/l wks. . . . .	. . .	9.08
80% coml. lc/l wks. . . . .	. . .	9.33
80% pure bbls. c/l wks. . . . .	. . .	10.30
80% pure lc/l wks. . . . .	. . .	10.85
Glacial, bbls. c/l wks. . . . .	. . .	12.05
Glacial, lc/l wks. . . . .	. . .	12.30
Glacial, USP chys wks. . . . .	. . .	12.80
Acetylacetic, 220 lb bbls.	1.05	1.10
Second Hands . . . . .	.95	1.00
Anthranilic, ton lots drs. . . . .	. . .	.96
95-98%, 100 lb drs.	1.00	1.10
99-100%, 100 lb drs. . . . .	. . .	1.20
Benzoic, tech. 100 lb bbls. . . . .	. . .	.65
Tech. ton lots bbls. . . . .	. . .	.60
USP, 100 lb bbls. . . . .	.72	.77
Boric, crys. powd. 250 lb bbls. . . . .	.11 1/2	.12
Kegs, 100 lb . . . . .	.12	.12 1/2
Broenner's, 250 lb bbls. . . . .	. . .	1.55
Butyric, 60% pure 5 lb bot. . . . .	.50	.60
Camphoric, USP VIII 1 lb bot.	5.50	5.60
Carbolic, USP crys. see also Phenol . . . . .	. . .	.47
110 lb tins . . . . .	. . .	.49
5 lb tins or bot. . . . .	.51	.52
1 lb bot. . . . .	. . .	.56
Liquid, USP 1 lb bot. . . . .	. . .	.55

ACID, Carbolic—(Continued)		
Crude, 25% 50 gal. bbls. . . . .	.35	.36
10%, 50 gal. bbls. . . . .	.30	.32
Chloracetic,		
mono 100 lb bbls. wks. . . . .	. . .	.30
DI, 150 lb chys wks. . . . .	. . .	1.00
TRI, 425 lb bbls. wks. . . . .	. . .	2.45
Chlorosulfonic, 1500 lb drs. . . . .	. . .	.15
Chromic, USP 200 lb drums. . . . .	. . .	.40
85% Pure, 300 lb drums. . . . .	. . .	.35
Chromotropic, 300 lb bbls. . . . .	. . .	1.25
Chrysanthemic, see Chrysanthemic		
Cinnamic, 5 lb cans.	3.00	3.25
CITRIC, USP crys 230 lb bbls. . . . .	. . .	.49
Powd., USP 200 lb bbls. . . . .	. . .	.50
Imported, crys. 112 lb kgs. . . . .	.52	.53
Single kgs. . . . .	.53	.54
Cleaves, 250 lb bbls.	1.05	1.10
Cresylic, 95% dark dr. resale. gal . . . . .	. . .	. . .
97-99% straw, drs. wks. . . . .	. . .	. . .
97-99% pale, drs. Imp. gal	1.30	1.50
97-99% decolor. drs. wks. gal . . . . .	. . .	. . .
Diethylbarbituric, 10 lb lots,	8.50	10.50
1 lb bot. . . . .	.16	.18
Formic, 75% tech. 100 lb chys. . . . .	.16	.18
90%, 75 lb chys. incl. . . . .	.16	.18
Gallie, USP 150 lb bbls. . . . .	.70	.75
Gamma, 225 lb bbls. wks.	1.30	1.90
Bbls., ton lots wks.	1.70	1.80
Glycerophosphoric, 25% 1 lb b.	1.65	1.70
H. 225 lb bbls. single. . . . .	. . .	.85
Bbls., ton lots wks. . . . .	. . .	.80
Hydrolic, 10% USP 5 lb bot. . . . .	.65	.70
Hydrobromic, 48% coml. 155 lb chys. wks. . . . .	.35	.40
48% coml. 10 chys. wks. . . . .	. . .	.40
40% USP 155 lb chys. wks. . . . .	.45	.48
10% USP 100 lb chys. wks. . . . .	.11	.13
Hydrochloric, see also Acid Muratic		
CP, USP, 110 lb chys. . . . .	.68	.69
HYDROFLUORIC, 80% 400 lb bbls. . . . .	. . .	.07
wks. . . . .	. . .	.06
30% bbls. c/l wks. . . . .	. . .	.07
30% 100 lb chys. wks. . . . .	. . .	.11
48% single 100 lb chys. wks. . . . .	. . .	.10
48% 10 chys. wks. . . . .	. . .	.12
52% 100 lb chys. wks. . . . .	. . .	.11
52% 10 chys. wks. . . . .	. . .	.11

Acid, hydrofluoric—(continued)		
60% 100 lb chys. wks. . . . .	. . .	.14
60% 300 lb dr., wks. . . . .	. . .	.12
White Acid, 100 lb chys. wks. . . . .	. . .	.36
White Acid, 10 chys. wks. . . . .	. . .	.35
Hydrofluosilicic, 35% 450 lb bbls. wks. . . . .	.10	.13
Hypophosphorous, USP 30% 5 gal. demis. . . . .	. . .	.95
USP, 10% 5 gal. demis. . . . .	. . .	.35
LACTIC, 22% dark 500 lb bbls. . . . .	.04 1/2	.05
22% light, bbls. . . . .	.05 1/2	.06
44% dark, bbls. . . . .	.09 1/2	.10
44% light, bbls. . . . .	.11 1/2	.12
66% bbls. . . . .	. . .	.16
USP IX 100 lb chys. . . . .	.60	.70
USP VIII 100 lb chys. . . . .	. . .	.55
Laurent's, 250 lb bbls. . . . .	. . .	.90
Metanilic, 250 lb bbls. . . . .	.60	.65
Mixed, sulfuric-nitric		
Drums, wks.	N Unit	.07 1/2
Drums, wks.	S Unit	.01
Tank cars, wks.	N Unit	.07 1/2
Tank cars, wks.	S Unit	.009
Methylidic, 85% pure 1 lb bot.	1.75	1.85
85% pure, 100 lb kgs. . . . .	. . .	1.30
Monosulfonic P, Delta. 50 lb tins . . . . .	. . .	2.30
MURIATIC, 30% chys. lc/l wks.	1.25	1.50
Chys. c/l wks.	1.10	1.30
Tank cars, wks.	1.00	1.10
18%, 120 lb chys.	1.00	1.10
c/l wks. . . . .	.90	1.00
Tank cars, wks.	1.75	2.00
22%, 120 lb chys.	1.75	2.00
c/l wks.	1.75	2.00
Iron, free, 20% chys. . . . .	. . .	1.35
c/l wks. . . . .	. . .	25.00
Tank cars, wks.	20.00	25.00
Muriatic, CP & USP, see Acid Hydrochloric		
Naphthionic, tech. 250 lb bbls.62
Refined, single bbls.65
Nerile & Winter's, 250 lb bbls.	1.25

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ACID, NITRIC, 86° 135b			Acid Sulfuric			ALCOHOL—(continued)		
Chy. wks.100b	4.75	: 5.00	Tank cars, wks.net ton	10 00	: 11.00	Butyl, 50 gal. drums.gal	...	: 2.25
Chy., c/l wks. ....100b	4.50	: 4.75	C. P. 175b chys. ....100b	.08	: .09	Cinnamic, liquid, 1b bot. ....b	10.00	: 12.00
38° single chys. wks. ....100b	5.50	: 5.75	Oleum, 20 p.e. 1500b drums,			Crystallizable. ....b	12.00	: 15.00
Chys., c/l wks. ....100b	5.25	: 5.50	lc/l wks. ....100b	...	: 1.50	Isobutyl, crude 50 gal. drums. ....gal	...	: 4.40
42° single chys. wks. ....100b	6.00	: 6.50	Drums, c/l wks. ....100b	...	: 1.25	Refined, 10b can. ....b	...	: .75
Chys., c/l wks. ....100b	5.75	: 6.00	Tank cars, wks. ....net ton	18.00	: 20.00	Isopropyl, crude 50 gal. drs. ....gal	...	: 2.25
44° single chys. wks. ....100b	6.75	: 7.50	Contract cars, wks. ....ton	...	: 18.00	Refined, 50 gal. drs. ....gal	4.00	: 4.50
Chys. c/l wks. ....100b	6.50	: 7.00	Oleum, 40° drs lc/l wks. net ton	...	: 40.00	Ref'd, 91%, drs. ....gal	...	: 3.50
C. P. chys. single wks. ....100b	...	: 13.00	Oleum, 60° drs, lc/l wks net	...	: 70.00	Methyl, see Alcohol, Wood		
Oxalic, 325b bbls. wks. ....b	...	: .13	Sulfurous, USP 6% 100b chys. b	.05	: .06	Phenylethyl, see Phenylethylalcohol		
Bbls. NY. ....b	...	: .13½	4% 100b chys. ....b	.04	: .05	Propyl, nml. crd 50 gal. drms. ....gal	...	: 4.40
Keps. 100b NY. ....b	...	: .14	USP, 5 gal. dems. ....b	.06	: .08	Refined, 10b can. ....b	...	: .75
Imp., 560b cks. ....b	.13	: .13½	Tannic, tech. 300b bbls. ....b	.40	: .50	Denatured		
Phenylacetic, 1b bot. ....b	3.00	: 4.00	USP, powd. 200b bbls. ....b	.70	: .75	No. 1 Complete Denat. 188 Proof		
Phosphoric, 50% tech. 100b			USP, fluffy, 50b bbls. ....b	.75	: .80	50 gal. bbls. incl. ....gal	.41	: .43
chys. ....b	.08	: .09	Tartaric USP cryst. 300b bbls. b	...	: .33½	50 gal. drums, extra. ....gal	.35	: .37
USP, 85% syrupy, 70b			USP, powd. 300b bbls. ....b	...	: .33½	No. 1 Special Denat. 190 Proof		
demis. ....b	...	: .18	Imp. USP. 240b bbls. ....b	.34	: .35	50 gal. bbls. incl. ....gal	.39	: .41
Phthalic, see Phthalic Anhydride			Powd. 240b bbls. ....b	.34	: .35	50 gal. drums, extra. ....gal	.33	: .35
Pieramic, 350b bbls. ....b	...	: .65	Tobias, 250b bbls. ....b	1.30	: 1.40	No. 5 Complete Denat. 188 Proof		
Pieric, 450b bbls. ....b	...	: .30	Tungstic, 100b kgs. ....b	...	: 1.00	50 gal. bbls. incl. ....gal	.38	: .40
Bbls. car lots wks. ....b	.20	: .22	Aconitine Alk. cryst. 1 oz. vis. on	...	: 30.00	50 gal. drums, extra. ....gal	.32	: .34
Pyrogalllic, crys. 5b cans. ....b	...	: 1.20	Amorphous, 1 oz. vis. ....oz	...	: 20.00	No. 6 Complete Denat. 188 Proof		
Resublimed, 5b cans. ....b	1.55	: 1.60	Adeps Lanne, hydrous 350b bbls. b	.21	: .23	50 gal. bbls. incl. ....gal	.37	: .40
Tech. powd., 200b bbls. ....b	...	: .80	Anhydrous, 350b bbls. ....b	.23	: .24	50 gal. drums, extra. ....gal	.31	: .33
Salicylic, tech. 125b bbls. ....b	.47	: .52	Albumen, Egg, edible. ....b	...	: .88	In addition to the regular author-		
USP, 100b bbls. ....b	.50	: .52	Technical, see Dyes Sundries			ized formulae for completely dena-		
Second Hands ....b	.48	: .50	ALCOHOL, USP 190 pf. 50 gal.			tured alcohol, some 75 formulae for		
Sulfanilic, 250b bbls. ....b	.17	: .20	bbls. ....gal	...	: 4.70	specially denatured alcohol are au-		
SULFURIC, 66° 180b chys.			Second Hands, bbls. USP 190			thorized for special uses. Owing to		
lc/l wks. ....100b	1.25	: 1.50	pf. ....gal	...	: 4.60	the limitations of their uses however,		
Chys., c/l wks. ....100b	1.00	: 1.25	Export, USP 190 pf. ....gal	.37	: .45	prices are quoted by the alcohol		
1500b Drums, lc/l			Cologne Spirit, 50 gal. bbls. ....gal	...	: 4.75	producers only to holders of per-		
wks. ....100b	...	: 1.10	WOOD, see Methanol			mits allowing the use of spe-		
Drums, c/l wks. ....100b	...	: 1.00	Alcohols, also in 50 gal.			cially denatured formulae in products		
Tank cars, wks. ....net ton	15.00	: 16.00	drums, extra and returnable.			authorized by the Dept. of Internal		
60° 1500b Drums,			Amyl, see Oil Fuel			Revenue. For prices on specially		
lc/l wks.100b	.70	: .90				denatured alcohols not listed above.		
Drums, c/l wks.100b	.60	: .80				consult any of the alcohol producers.		



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Acidity	70% HNO ₃
Fe	.00002%
H ₂ SO ₄	.00006%
Iodine	"Nil"
As	"Nil"
Cl	"Nil"
Nonvolatile	.0002

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Chemicals

Alolin, USP 100 lb cases.....	lb	.87	: .90
Alpha-Naphthol, tech. 300 lb bbls. lb		...	: .65
Refined, 300 lb bbls.....	lb	...	: .75
Alpha-Naphthylamine, 350 lb bbls. lb		.37	: .39
Ton lots, bbls. wks.....	lb	.35	: .37
ALUM, Ammonia, lump 400 lb bbls.			
Wks.....	100 lb	3.50	: 3.65
Imp., 500 lb casks.....	100 lb	3.25	: 3.50
Ground, 400 lb bbls. wks. 100 lb		3.65	: 3.75
Powd., 380 lb bbls. wks. 100 lb		3.90	: 4.00
Chrome, 500 lb cks wks. 100 lb		5.00	: 6.00
Potash, lump 400 lb bbls.			
Wks.....	100 lb	...	: 4.50
Bbls. c/l wks.....	100 lb	...	: 4.25
Cont. bbls. c/l wks.....	100 lb	...	: 4.25
Imp. 650 lb cases s.p. 100 lb		3.25	: 3.50
Ground, 400 lb bbls. wks. 100 lb		4.35	: 4.60
Imp. 650 lb casks.....	100 lb	3.25	: 3.50
Powd., 380 lb bbls. wks. 100 lb		4.50	: 4.75
Chrome, 700 lb cks wks. 100 lb		5.25	: 5.50
Soda, grd. 400 lb bbls. wks. 100 lb		...	: 4.00
Bbls. c/l wks.....	100 lb	...	: 3.50
Aluminum, metal, c/l NY.....	100 lb	24.50	: 25.00
Chloride, anhyd. 275 lb drs. lb		.20	: .22
30% sol. 120 lb chys.....	lb	.03½	: .04
Hydrate, 96% light 90 lb bbls. lb		.18½	: .20
SULFATE, Iron-free bags c/l			
Wks.....	100 lb	2.50	: 2.65
Imported, spot.....	100 lb	2.50	: 2.60
Comm'l., ¼% iron, bgs. c/l			
Wks.....East 100 lb		1.45	: 1.50

ALUMINUM SULFATE—(Continued)

Cont. bgs. c/l wks. E. 100 lb	...	: 1.40
Bags, c/l wks. W. 100 lb	...	: 1.35
Bbls., c/l wks. East. 100 lb	...	: 1.60
Bulk, c/l cont. wks. E. 100 lb	...	: 1.35
Amidol, (see Diaminophenol)		
Amidopyrine, 10 lb boxes.....	lb	4.75 : 5.15
1 lb cartons, 10 lb.....	lb	5.21
Aminoazobenzene, 110 lb kgs.....	lb	: 1.15
AMMONIA anhyd. 100 lb cyl. lb		: .30
Water, 26° 800 lb drs. wks. lb		: .07½
Drs. c/l wks.....	lb	.07 : .07½
Imp., 800 lb drs incl spot. lb		.06% : .07
26°, 100 lb chys. lb/l wks. lb		: .09½
Chys., c/l wks.....	lb	: .09½
20°, 800 lb drs. lb/l wks. lb		: .06
Chys., lb/l wks.....	lb	: .07½
18°, 800 lb drs. lb/l wks. lb		: .05½
Chys., lb/l wks.....	lb	: .07½
16°, 800 lb drs. lb/l wks. lb		: .04
Chys., lb/l wks.....	lb	: .05
Ammonium Acetate, 100 lb kgs. lb		.35 : .36
Benzoate, USP 1 lb bot.....	lb	.85 : .90
Bifluoride, 300 lb bbls.....	lb	.22 : .23
100 lb kgs.....	lb	.23 : .24
Bromide, 50 lb boxes.....	lb	: .33
Imported, 112 lb boxes.....	lb	.18 : .20
Carb., tech. 560 lb casks.....	lb	: .08½
Powd., tech. 385 lb bbls. lb		: .09
USP, lump, 100 lb kgs.....	lb	: .09½
Powd., 100 lb kgs.....	lb	: .08½
Chloride, Domestic		
White gran. 250 lb bbls. NY. lb		: .08
Bbls., c/l wks.....	lb	: .07½
Gray 250 lb bbls. wks.....	lb	.08% : .08%
Bbls., c/l wks.....	lb	: .08½

AMMONIUM CHLORIDE—(Continued)

Imp. wh. 600 lb cases spot. lb	...	: .07
Gray, 600 lb casks spot. lb	...	: .09
Lump, 500 lb casks spot. lb	...	: .14
Ichthyolate, as to brand.....	lb	.75 : 4.00
Iodide, USP 25 lb jars.....	lb	: 5.20
Lactate, 500 lb bbls.....	lb	.15 : .16
Nitrate, tech. crys. 225 lb bbls. lb		: .13½
CP gran. 100 lb kgs.....	lb	.20 : .21
Oxalate, pure, 100 lb kgs.....	lb	.50 : .57
Persulfate, 112 lb cases.....	lb	.55 : .60
Phosphate, dibasic 200 lb bbls. lb		.54 : .60
Tech., powd. 325 lb bbls. lb		.15 : .17
Salicylate, USP 100 lb kgs.....	lb	.68 : .70
Sulfate, bulk c/l wks.....	100 lb	3.75
200 lb single bgs c/l wks. 100 lb		3.90
200 lb double bags f.a.s. 100 lb		4.15
Sulfocyanide, tech. 100 lb kgs. lb		.50
CP. 25 lb jars.....	lb	.60 : .65
Amyl Acetate, tech. 50 gal. drs. gal		3.50 : 4.00
Pure, 5 gal. cans.....	gal	6.00 : 7.00
Alcohol, see Fusel Oil		
Butyrate, 1 lb bot.....	lb	2.00 : 2.10
Formate, 1 lb bot.....	lb	1.75 : 2.00
Salicylate, 100 lb chys.....	lb	1.45 : 1.60
Anethol, 2 lb bot.....	lb	1.60 : 2.00
ANILINE OIL, 900 lb drs. 5 drs. lb		: .17
Aniline Salt, 200 lb bbls.....	lb	.24 : .25
Anisic Aldehyde, 1 lb bot.....	lb	3.40 : 4.00
Anthracene, 40-45% 600 lb casks		
Wks.....	lb	.12 : .17
80-85%, 600 lb casks wks.....	lb	.75 : 1.00
Anthraquinone, sub 125 lb bbls. lb		1.30 : 1.35
30% paste 350 lb bbls.....	lb	.75 : .80
Antimony metal, slabs ton lots 100 lb		8.87½ : 9.12½
Needle Powd., 100 lb cases.....	lb	.06½ : .07

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Colchicine Salicylate
Cresote, U. S. P.
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Chemicals

ANTIMONY CHLORIDE, anhyd 1000b			Bay Rum, Porto Rican, genuine			Beta-Naphthylamine, tech. 200b.		
dra.	b	.35	Denat. salicy acid or tartar emetic			bbis.	b	.90 : .95
50 lb crocks.	b	.45	45 gal. bbis.	gal	3.10 : 3.25	Sublimed, 200b bbis.	b	1.30
Sol'n. 130b carboys.	b	.12 : .13	Denat. quinine sulf. 45 gal.			Bichloride Mercury, see Mercury Bichloride		
Oxide, 500b bbis.	b	.07 : .07 1/2	bbis.	gal	3.40 : 3.50	BISMUTH metal, 150b cases.	b	2.75 : 2.85
Salt, dom. 500b bbis.	b	.34	Domestic synthetic, 50 gal.			Second Hands.	b	2.60 : 2.65
Imp. NY.	b	.23 : .24	bbis.	gal	1.25 : 1.35	Ammon. Citrate, USP 5b bxs.	b	5.60
Sulfide, golden 500b bbis.	b	.19	Benzaldehyde, tech. 945b dra.			Betanaphtholate, 5b bxs.	b	3.20
336b kegs.	b	.17	wks.	b	...	Citrate, USP 5b bxs.	b	3.00
Crimson, 500b bbis.	b	.38	USP, 25b cans.	b	1.40 : 1.50	Nitrate, 25b jars.	b	1.85
336b kegs.	b	.36	PFC, 25b cans.	b	1.60 : 1.70	Oxychloride, 250 bbis.	b	3.35
Red, 500b bbis.	b	.43	BENZENE, 90% 8000 gal. tanks			Phenolsulfonate, 5b cans.	b	3.05
336b kegs.	b	.40	wks.	gal	.27	Salicylate, 250 bbis.	b	1.95
Tartrolactate, 500b bbis.	b	.45	110 gal. dra. wks.	gal	.32 : .33	Subcarbonate, USP, 250 bbis.	b	3.25
Antipyrine, USP, 100b cases.	b	2.90 : 3.00	CP Tanks, wks.	gal	.30	Subcarbonate, USP 250 bbis.	b	3.25
Apomorphine Hydrochloride, 1/2 oz. via. oz.	b	16.65	110 gal. dra. wks.	gal	.35 : .36 1/2	X-Ray diag. 1b bot.	b	3.60
Arecoline Hydrate, 1 oz. vial. oz.	b	8.00 : 9.50	Benzidine Base, dry 250b bbis.	b	.86	Subgallate, USP 175 bbis.	b	2.65
Argols, red powd. 350b bbis.	b	.07 : .07 1/2	10 bbl. lots.	b	.84	Sublimate, 5b lots.	b	4.55
Arsenic, metal 220b kegs.	b	.23 : .24	Benzidine Sulfate, paste 350b			Subnitrate, USP, 250 bbis.	b	2.75
Red, 224b kegs.	b	.14 1/2 : .15	bbis.	b	.70 : .72	Second Hands, bbis. or less.	b	2.55 : 2.60
White, 550b bbis. c/l NY.	b	.15 1/2 : .16	Benzol, see Benzene			Cones, 1b bot.	b	3.75
Aspirin, see Acid Acetylsalicylic			Benzonaphthol, 5b boxes.	b	2.00 : 2.10	Subsalicylate, USP, 175 bbis.	b	3.05
Atropine Alk. USP 1 oz. vial.	oz	10.50	Benzoyl Chloride, 500b dra.	b	1.00	Tannate 1b bot.	b	2.58
Sulfate, 5 oz. in 1 oz. vials.	oz	3.00	Benzyl Acetate, 100b chys.	b	1.25 : 1.40	Bismuth Preparations quoted		
Single ounce.	oz	3.10	Alcohol, 5b bot.	b	1.50 : 1.75	above on basis 25b lots.		
BARIUM BINOXIDE, see Barium dioxide			Benzoate, 5b bot.	b	1.50 : 1.60	Smaller lots at an advance.		
Carbonate, precip. 800b bbis.	ton	72.00	Medicinal PFC.	b	1.60 : 1.75	Blanc Fixe, dry 400b bbis. wks. ton	80.00 : 85.00	
wks.	ton	72.00	Chloride, 95% tech. 925b dra.	b	.25	Imported, bbis.	ton	40.00
Imports, bbis., spot.	ton	73.00	100b chys.	b	.30	Paste, 650b bbis.	ton	40.00
Precip., 200b bgs. wks.	ton	70.00	Redistil. 100b chys.	b	.35	BLEACHING POWDER, 700b dra.		
Chloride, 800b bbis. wks.	ton	90.00 : 95.00	Formate, 1b bot.	b	2.50 : 3.00	c/l wks.	100b	2.15 : 2.25
200b bgs. wks.	ton	90.00 : 95.00	Berberine Hydrochloride, 1b bot.	b	22.00	Drums 1c/l ex-warehouse.	100b	2.40 : 2.65
Import, bbis., spot.	ton	85.00 : 90.00	Sulfate, acid or neut. 1b bot.	b	22.00	Contract, c/l wks.	100b	1.90 : 2.00
Dioxide, 88% 690b dra.	b	.17 : .18	BETA-NAPHTHOL, 350b bbis. wks.			F. a. s. c/l.	100b	2.15 : 2.25
Import, 83-85% 400b dra.	b	.14 : .16	ton lots, wks.	b	.23 1/2 : .24	Imported, spot.	100b	2.15 : 2.25
Hydrate, 500b bbis.	b	.05 1/4 : .06	Sublimed.	b	.55 : .60	Blue Ointment, see Mercury		
Iodide, 5b box.	b	5.15				Mass, see Mercury		
Nitrate, 700b casks.	b	.10				Bone Ash, 100b kegs.	b	.08
Import, casks.	b	.08 1/4 : .09				Black, 200b bbis.	b	.06 : .08
Sulfocyanide 400b bbis.	b	.35						
Barytes, floated 350b bbis.	ton	33.50 : 35.00						




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CHICAGO

Chemicals

Borax, USP, cryst. 400 lb bbls.. lb	.05 1/2	.05 1/2	CALCIUM CHLORIDE—(Continued)			Carbon Tetrachloride, 1400 lb dra.		
Powdered, U.S.P. 300 lb bbls.. lb	.05 1/2	.05 1/2	Flake 330 lb dra. c/l dra. fob			NY .....		.10 1/2
Kegs, USP, 100-150 lb .....	.05 1/2	.06	NY	30.50		Drums, c/l NY .....	.09	.09 1/2
Bordeaux Mixture, powd. bbls.. lb	.12	.15	Imp., solid 600 lb dra. spot. ton	20.50		700 lb dra. single NY .....		.10 1/2
Paste, bbls. ....	.08	.10	Anhyd., 350 lb dra. fob NY. lb	.12	.13	Carbide, No. 40 5 lb boxes.. lb	4.50	4.60
Borneol, 1 lb bot.		3.50	Glycerophosphate, 250 lb bbls.. lb	1.55	1.60	Casein, edib. 100 lb keg .....	.45	.50
Bromide, see potass. bromide, etc.			Hydrate, (see Lime)			Technical, 200 lb bbls. ....	.28	.30
Bromine, bot. in 60 lb cs. wks. ....		.29	Iodide, 5 lb bot.	4.35		Castoreum, 1 lb boxes	4.00	4.50
Bromobenzene, 600 lb drums .....	.40	.42	Lactate, tech. 500 lb bbls. ....		.13 1/2	Castor Oil, USP 50 gal. bbl. ....		.13
Bromoform, USP 5 lb bot 50 lb cs. lb		1.30	Nitrate, 220 lb bbls. c/l NY. ton		40.00	Cases, 80 lb 2 tins. ....		.14
Bromistrol, 25 lb kegs	4.00	4.25	Phosphate, precip. 350 lb bbls. lb	.10	.12	Chem., see Fixed Oils		
Brucine Sulfate, 100 ozs. ....		.20	Phosphate, precip. tribasic 350 lb bbls. ....	.13	.13	Caustic Potash, see potash, caustic		
Butter of Antimony, see Antimony Chloride			Phosphate, mono. ....	.06 1/2	.07 1/2	Soda, see soda, caustic		
CADMIUM, metal 100 lb bbs.	1.15	1.25	Sulfocarbonate, 100 lb kegs .....	.58	.60	Cerium Oxalate, USP 100 lb kgs. lb	.48	.53
Bromide, 50 lb cases jars		1.10	Calomel, see Mercury			Chalk, drop 175 lb bbls. ....		.03 1/2
Iodide, 10 lb bot.		4.45	CAMPOR, Amer. ref. 250 lb bbls. ....		.96	Precip. light 175 lb bbls. ....	.04 1/2	.04 1/2
Sulfide, cs.	1.50	1.60	2 1/2 lb slabs, 100 lb cs. ....		.97	Precip. heavy 500 lb cals. ....	.03 1/2	.04
CAFFEINE ALK. USP 5 lb cans.	3.75	4.25	1 lb cakes, 100 lb cs. ....		.97 1/2	Bulk	5.00	8.00
Second Hands		3.75	1 oz. tab., 1 lb ctns.		1.01 1/2	Precip. English, 7 lb bags .....	.08 1/2	.08 1/2
Hydrochloride, 1 lb bot.	7.12	7.32	1/2 oz. tab., 1 lb ctns.		1.02	Charcoal, Bone, see bone black		
Sulfate, 1 lb bot.		5.50	100 lb cs.		1.00	Wood, powd. 100 lb bbl. ....	.04	.05
Citrate, 25 lb cans.	3.00	3.25	Jap. ref. 2 1/2 lb slabs, 100 lb cs. ....	.90	.92	Willow, powd. 100 lb bbl. ....	.06	.07
Hydrobromide, 1 lb bot.		4.75	1 oz. tab., 100 lb cs. 1 lb tins.		1.00	China Clay, imp.	18.00	22.50
CALCIUM Acetate, 150 lb bgs, c/l wks.		3.50	1/2 oz. tab. 100 lb cs. 1 lb tins.		1.02	Domestic, fob Mine.	15.00	17.50
Arsenate, 100 lb bbls. c/l wks. lb	.17	.19	Chinese ref. 2 1/2 lb slabs 100 lb cs. ....		.90	Chloral Hydrate, USP 100 lb dra. lb	.75	.80
Bbls. 1c/l wks. ....	.18	.21	Crude, 100 lb cs. ....	.72	.73	25 lb jars .....	.78	.81
Bromide, 100 lb cs. ....		.45	Campbor, Monobrom. 100 lb cs. lb	1.90	1.95	Chinoidin, 170 lb cases .....	.65	.75
Calcium Carbide, 220 lb dr c/l wks lb		.04 1/2	Caramel, 50 gal. bbls. gal	.60	.62	Chloramine-T, 5 lb bot.	1.25	2.50
Drums 1c/l wks. ....		.05	Carbazol, 250 lb bbls. ....	.75	.80	Chlorocane, 5 lb bot. ....	.55	.75
Carbonate, tech. 100 lb bags c/l	1.00	1.10	Carbon Bisulfide, 500 m dr. 1c/1 NY lb		.06 1/2	Chlorhydrin, Ethylene anhyd, 600 lb dra. ....	.75	.85
USP, precip. 175 lb bbls. ....		.04	c/l drums, NY. ....		.05 1/2	40% soln. 100 lb cbs. ....	.25	.30
Chloride, solid, 650 lb dra. c/l f o b NY.		24.50	Carbon Black, 12 1/2 lb bags, 150-225 lb cases .....	.18	.35	CHLORINE, Liquid 3000 lb cyl. c/l wks. ....	.05 1/2	.05 1/2
Gran., 350 lb dra. c/l f o b NY		30.50				Tank car lots wks. ....	.05 1/2	.05 1/2
						100 lb cyl. c/l .....	.06	.06
						100 lb cyl. 1c/l wks. ....	.06 1/2	.07
						100 lb cyl. 1c/l, ex-warehouse. ....		.09
						Chlorobenzene, 1000 lb dra. wks. ....	.10	.11
						Dr. c/l wks. ....	.09	.09
						Tank car lots wks. ....	.08	.08
						CHLOROFORM, USP 50 lb dra. ....	.35	.35
						Second Hands, 650 lb dra. ....	.32	.34
						Technical, 650 lb drums33	.35



ACETIC ANHYDRIDE

92-95%

(Free of Phosphorus, Chlorine and Sulphur)

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Chemicals

Chromium Acetate, 30° soln. 400b bbis.08	: .10	COD LIVER OIL, Norwegian, 30 gal. bbis.	21.75	: 23.00	Cyanamide, bulk c/l wks. Amm. unit ...	: 3.25	
Fluoride, Powd. 400b bbis. ....	...	: .30	Newfoundland, 30 gal. bbis. bbl	...	: ...	DIAMINOPHENOL, 100b kegs.	: 3.80
Soln. 400b bbis. ....	...	: ...	Colchicine alk., USP 1 oz. vial. ....	...	: 30.00	Dianisidine, 100b kegs.	: 4.60
Sulfate, 400b bbis. ....	.07	: .09	Salicylate, 1 oz. vial. ....	...	: 45.00	Dichlorobenzene, 1000b drs. ....	.06 : .07½
Chrysarobin, USP 5b cans.	2.00	: 3.00	Colloidon, USP 30b drums. ....	.22	: .23	Diethylaniline, 850b drs. ....	.60 : .65
Cinchonidin alk., powd. 100 oz. tins. ....	...	: .70	Flexible, USP 30b drums. ....	.27	: .28	Diethyl Phthalate, 25b cans. ....	.65 : .75
Crystal. ....	...	: .75	COPPER, metal electrolytic c/l			Diethyl Sulfate tech. 50gal. drs. ....	.20 : .25
Sulfate, 100 oz. tins. ....	.49½	: .50	NY.	100b	: 17.25	CP drums. ....	.40 : .50
Cinchonine, alk., powd. 100 oz. tins. ....	...	: .38	Lake, c/l NY.	100b	: 17.37½	Digitalin, Pure, 1 oz. vial.	7.75 : 8.25
Crystal. ....	...	: .43	Casting, c/l NY.	100b	: 16.87½	Dimethylaniline, 840b drs. wks. ....	.43 : .44
Sulfate, 100 oz. tins.	: .35	Carbonate, 400b bbis.19	: .19½	Dimethylsulfate, 100b drs.	: .50
Cinnamic Alcohol, see Alcohol Cinnamic			Cyanide, 100b drs. ....	.58	: .60	Dinitrobenzene, 400b bbis. ....	.19½ : .20
Cinnamic Aldehyde, 1b bot.	3.20	: 3.50	Iodide, 5b bot. ....	...	: 5.65	Dinitrochlorobenzene, 400b bbis. ....	.19½ : .20
Citral, 25b cans.	2.75	: 3.00	Oxide, 1000b bbis. ton lots. ....	.18	: .19	Dinitronaphthalene, 350b bbis. ....	.32 : .34
Citrine Ointment, see Mercury			Sub-Acetate, verd. 440b bbis.35	: .37	Dinitrophenol, 350b bbis.	: .40
Citronellal, 1b bot.	2.00	: 2.25	SULFATE, crys. 450b bbis. kg/l			Dinitrotoluene, 300b bbis. ....	.19 : .21
Citronellol, 1b bot.	8.00	: 14.00	spot.	100b	: 6.65	Dioxin, see Morphine, Bkyl		
Cobalt metal, 100b kegs.	2.75	: 2.85	Carlota, bbis. f.a.b. NY. 100b	...	: 6.50	Diphenylamine, 250b bbis. ....	.48 : .50
Cobalt Oxide, 500b bbis. ....	...	: 2.10	Imp. 550b cans.	100b	: 5.75	Diphenylsulfate, 500b drums. ....	.85 : .90
10b tins 200b cans. ....	...	: 2.35	Powdered, 350b 5 bbis. ....	...	: .08½	Dover's Powder, USP 5b tins.	2.20 : 2.30
COCAINE alk., USP. 1 oz. vial.	: 11.00	Copperas, bulk c/l wks.	ton	: 20.00	Duboisine Sulfate, 1 oz. vial.	: 60.00
Hydrochloride, USP—1 oz. vials, 25 ozs.	: 7.07	400b bbis. c/l wks.	ton	: 25.00	EARTH, Diatomaceous, see Kieselguhr		
In ¼ oz. vials.	: 7.50	200b bgs. c/l wks.	ton	: 23.00	Emetine, alk., 15 gr. vials.	: 1.65
In crystals, granular, powder, or flaky crystals as desired.			Powdered, bbis.	100b	: 3.45	Hydchlde, USP 1 oz. vial.	: 10.00
Cocoa Butter, bulk 200b bales. ....	.31	: .33	Corn Syrup, 43 deg. 50 gal. bbis.	100b	: 2.77	15 gr. vials. ....	.75 : .80
Fingers, cakes, etc. 12b bxs.36½	: .37½	43 deg. 50 gal. bbis.	100b	: 2.82	EPSON SALT, tech. 300b bbis. NY.	100b	: 2.25
CODEIN alk., 5 oz. cans 10 oz lots.	: 7.30	Corrosive Sublimate, see Mercury Bichloride			Bbis. c/l NY.	100b	: 2.10
Hydrobromide, 10 ozs.	: 5.85	Cotton Soluble, 100b bbis. wet.40	: .42	100b bgs. c/l NY.	100b	: 1.85
Hydrochloride, 10 ozs.	: 6.55	Coumarin, 25b tins.	4.50	: 4.75	Imp., 220b bgs. c/l		
Nitrate, 10 ozs.	: 6.55	Second Hands.	: ...	NY.	100b	: 1.10
Phosphate, 10 ozs. ....	...	: 5.50	CREAM TARTAR, USP 300b			USP, 300b bbis. 10 bbis. 100b	2.75 : 2.90
Salicylate, 10 ozs.	: 5.50	bbis.	: .26½	Carlota, bbis.	100b	: 2.50
Sulfate, 10 ozs.	: 5.85	Imp. powd. USP, 224 bbis.	25½	: .26½	Imported, 300b bbis.	100b	: 2.50
Small Sizes, ¼ oz. vials, 50c extra, ½ oz. 25c extra, singles 7c extra per oz.—25 oz. lots, 10c. cheaper than above. Less than 10 ozs. 15c. oz. higher than above.			Creosote, USP, 42b clys. ....	.40	: .45	Ergotin, Bonjean, 1b jars.	9.50 : 10.00
			Creosote Oil, 50 gal. drs.20	: .22	Esmerine alk., 1 oz. vial.	: 30.00
			Carbonate, 1b bot. 25b.	1.60	: 1.75	Salicylate, USP 1 oz. vial.	: 20.00
			Cresol, USP, 400b bbis.25	: .27	Sulfate, USP VIII, 1 oz. vial.	: 15.00

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Hyosamine Alk. Cryst., 1 oz. vial..	35.00
Alkaloid, Amorphous, 1 oz. vial..	75.00
Hydrobromide, USP 1 oz. vial....	60.00
Sulfate, 1 oz. vial.....	35.00
INDOL, C. P. 1 oz. bot.....	8.50 : 9.00
Iodides, see Potas. Iodids, etc.	
IODINE, crude, 200 lb kegs.....	2.90 : 3.95
Resublimed, 10 lb jars.....	4.85
Tincture, USP, 50 gal. bbls..gal	4.50 : 4.60
Carboys	4.75 : 4.85
Iodoform, powd. 10 lb bot.....	6.00
Crystals, 10 lb bot.....	7.00
Ionone, (violet) 1 lb bot.....	5.00 : 9.00
Iridium, metal 10oz lots.....	250.00
Iron, metal by hydrogen 1 lb bot..	.65 : .70
IRON & AMM. CITRATE, USP 25 lb cans84
Green scales, 25 lb cans.....	.84
Cacodylate, 10 lb bot.....	9.00 : 9.25
Citrate, USP VIII 25 lb cans..	.99
Chloride, see ferric or ferrous	
Hypophosphite, 5 lb cans.....	1.50 : 1.60
Syrup, USP VIII.....	.30
Iodide, 1 lb bot.....	4.20
Syrup, USP 5 lb bot.....	.35 : .36
Nitrate, kegsD	.09 : .10
Com'l, bbls.,.....100 lb	2.75 : 3.25
Oxalate, scales 25 lb cans....	.80 : .83
& Ammon. Oxalate, 25 lb tins..	.45 : .50
& Potassium Oxalate, 25 lb bxs..	.47 : .48
& Sodium Oxalate, 25 lb bxs..	.40 : .43
Phosphate, USP 25 lb cans...D	.89
Pyrrophosphate, USP 25 lb cans90 : .97
Euo-Eugenol, 1 lb bot.....	4.25 : 5.00
JALAP RESIN, lump 5 lb tins..	3.25 : 3.35
Powd., tin.....	3.40 : 3.50
KIESERLURH, 90 lb bags NY...ton	60.00 : 70.00
LANOLIN, see Adeps Lanae	
LEAD, metal, c/l NY.....100 lb	8.25 : 8.35
Acetate, white crystals 500 lb	bbls. wks.....D
100 to 250 lb kgs. wks.D	.14
White, broken, bbls. wks.100 lb	12.90
White, gran., bbls., wks.100 lb	13.15
White, powd., bbls. wks.....D	14.4%
Kegs, wks.....D	14%
Brown, broken, bbls. wks.....D	12%
USP, 100 lb kegs.....D	13
Arsenate, 100 lb bbls. lc/l wks..	.25 : .26
Bbls. c/l wks.....D	.31 : .24
Paste, 600 lb bbls.....D	.12 : .13
Iodide, USP VIII 5 lb bot.....	3.20 : 3.40
Nitrate, 500 lb bbls. wks.....D	.23
Oxide, lithge, 500 lb bbls..100 lb	10.90 : 11.15
100 lb kegs, wks.....D	14%
Oxide, red 500 lb bbls. wks.....D	11.40 : 11.65
100 lb kegs wks.....D	14%
Peroxide, 100 lb drs.....D	.28
White, basic carb. 500 lb bbls.	bbls. wks.....D
Bbls. c/l wks.....100 lb	.09% : .10
100 lb kegs wks.....D	.09%
White, sulfate 500 lb bbls. wks.D	.14%
Bbls. c/l wks.....100 lb	.09% : .09%
Licorice Ext. Mass, cases.....D	.25 : .26
Compound powder, bbls.....	.11 : .13
Sticks, 1 oz 100 lb cases.....	.38 : .40
LINE (Salts, see Calcium Salts)	.45 : .50
Live, 325 lb bbls. ton lots, wks.D	.01%
Sine bbl. wks.....D	.01%
Hydrated, 167 lb bbl. ton lots,	wks.....D
Single bbl, wks.....D	.01%
Oyster Shell, 150 lb bbl, single..	.03
125 lb bag.....D	.03
Sulfur, gry 200 lb drs. NY.....	.08 : .10
Dra. c/l NY.....	.10%
33° Soln. 50 gal. bbls. NY.gal	.15 : .16
Linoleol, 5 lb bot.....	7.00 : 7.25
Linaleyl Acetate, 1 lb bot.....	7.00 : 10.00
Benzoinc, 1 lb bot.....	13.00 : 14.00
Litharge, see lead oxide	
Lithium Carb. USP 100 lb kgs..D	1.50 : 1.60
Bromide, 100 lb cs.....D	1.70 : 1.80
Citrate, USP 100 lb kegs.....D	1.80 : 1.70
Iodide, 5 lb bot.....D	5.40
Lithopone, 400 lb bbls. lc/l wks.D	.07% : .08
Bbls. c/l wks.....D	.07
Imported, bbls.....D	.05% : .05%
Litmus Cubes.....D	.90 : 1.00
MAGNESITE, crude.....ton	15.00
Calcined, 500 lb bbls.....ton	55.00
Magnesium mtl., sticks 100 lb cs.D	1.40 : 1.50
Carb. tech. 70 lb bags NY.....	.07% : .08
75 lb bbls. NY.....D	.08% : .09
USP, 60 lb bbls.....D	.10 : .11
USP, blocks 100 lb ca. 1, 2, 4	con.....D
Chloride, fused 575 lb drs. c/l	wks.....ton
Flaked, 350 lb drs. wks.....ton	34.00
Imp., fused 900 lb bbls. NY.ton	26.00 : 28.00
Flocculate, crystal 400 lb bbls.	wks.....D
30% soln. 500 lb bbls. wks.D	.07 : .07%
Solin. bbls. c/l wks.....D	.06
Glycerophosphate, 5 lb tins.....D	3.35
Hypophosphite, 5 lb cans.....D	1.15
Oxide, USP light 100 lb bbls..D	.45
USP, heavy 250 lb bbls.....D	.50
Peroxide, 5 lb cans.....D	2.15
Perborate, 1 lb tins.....D	2.25
Salicylate, 100 lb kegs.....D	.67 : .70
Sulfate, see Epsom Salt	
Manganese Chloride, 600 lb cas.	NY.....D
Borate, 200 lb bbls.....D	.18
100 lb kegs.....D	.19
Dioxide, 80-84% 900 lb bbls.	NY.....ton
85-90%, 900 lb bbls. NY.ton	35.00 : 36.00
Hydrated, precip. 100 lb kgs.D	.32 : .35

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Acetone
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Lithopone

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Oxalic Acid
Phthalic Anhydride
Potash Bicarbonate
Soda Sulphide
Tartaric Acid

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Chemicals

Manganese—(continued)			METHANOL (Wood Alcohol)			NAPHTHA, Solvent, 110 gal. dra.		
Glycerophosphate, 5 lb tins....	D	2.05	95%, 50 gal. drums. ext....	gal	1.12 : 1.16	8000 gal. tank cars wks....	gal	...
Hypophos. USP VIII 5 lb cans. D		1.65	97%, 50 gal. drums. ext....	gal	1.14 : 1.17	...	gal	...
Iodide, 1 lb bot.....	D	6.40	Pure, 50 gal. drums. ext....	gal	1.30 : 1.35	NAPHTHALENE, Flake, 175 lb bbls.		
Ore, bulk NY.....	unit	.30	Acetone free, 50 gal. drums. ext. gal		1.25 : 1.40	...		
Sulfate, 600 lb casks NY....	D	.10 : .11	Bbls. incl. 5c higher			Bbls. c/l wks....	D	.07%
Marble Flour, bulk.....	ton	10.00 : 12.00	Methyl Acetone, 100 gal. drums. gal		.75	Bbls., second hands NY....	D	.09%
See also Calcium Carbonate			Tank cars.....	gal	.70	Balls, 250 lb bbls. wks....	D	.08
MENTHOL, USP, 60 lb cases....	D	8.25	Anthranilate, 1 lb bot.....	D	2.25 : 2.50	Bbls. c/l wks....	D	.07%
Less cases, 5 lb tins.....	D	8.40 : 8.50	Chloride, 90 lb cyl.....	D	.50	Bbls., second hands, NY....	D	.10 : .11
MERCURY, metal, 75 lb flask..	flask	70.00 : 72.00	Chloramate, 1 lb bot.....	D	4.00 : 4.50	Crushed bgs. wks....	D	.05%
Less Flasks, 5 lb jugs....	D	1.02 : 1.04	Paracetamol, 1 lb bot.....	D	8.00 : 9.00	Crude, imp., bgs....	D	.04
Bichloride, cryst. 25 lb bxs..	D	1.17	Salicylate, USP, 50 lb cases..	D	.62	Nerolin, 1 lb tins....	D	1.75 : 2.00
Gran. powd., 200 lb kgs....	D	1.02	500 lb drums.....	D	.80	Nickel Metal, electrolytic 100 lb		
Bisulfate, 25 lb boxes....	D	.86	Second Hands, cases....	D	...	kgs.....	D	.30
Blue Mass, 25 lb boxes....	D	.62	Methylene Blue, tech. 100 lb kgs.	D	1.00 : 1.50	Ingot, 100 lb kgs....	D	.25 : .30
Powdered, 25 lb boxes....	D	.64	USP, medicinal 5 lb cans....	D	2.25 : 2.60	Salt, single 400 lb bbls. NY..	D	.07% : .11
Blue Ointment, USP 25 lb cans			Michler's Ketone, 225 lb bbls..	D	...	Double, 400 lb bbls. NY....	D	.08 : .10
50%.....	D	.80	Milk. powd. 150 lb bbls....	D	.14 : .15	Oxide, 100 lb kgs NY....	D	.40 : .42
USP, dilute 25 lb cans 30%..	D	.62	Milk Sugar, see sugar of milk			Nitre Cake, bulk wks....	ton	6.50 : 8.00
33 1/3% Mercury.....	D	.67	Mineral Oil, see oil mineral			500 lb bbls....	ton	9.00 : 9.75
Calomel, 50 lb bxs.....	D	1.25	Monochlorobenzene, see chlorobenzene			Nitrobenzene, crude 1000 lb dra.		
Citrine Ointment 25 lb jars..	D	.50	Monoethylaniline, 900 lb drs....	D	1.00	...	D	.09% : .10%
Iodide, green 25 lb jars....	D	4.00	100 lb drs....	D	4.00	Redistilled, 1000 lb dra. wks..	D	.10 : .11
Red, USP 25 lb jars....	D	4.10	MORPHINE Sulfate, USP 5 oz. tins			Nitronaphthalene, 550 lb bbls..	D	.20 : .21
Yellow, USP VIII 25 lb jars..	D	4.00	10 oz.....	oz	5.35	Nitrotoluene, mixed 1000 lb dra.		
Med Precip. USP 25 lb bxs....	D	1.38	Acetate, 5 oz. tins 10 oz. lots..	oz	5.35	...	D	.14 : .15
Powder, USP 25 lb bxs....	D	1.48	Hydrobromide, 5 oz. tins 10 oz.	oz	5.35	Oil Fusel, see Fusel Oil		
White Precip. USP 25 lb bxs..	D	1.49	lots.....	oz	5.35	OIL MINERAL, wh. 50 gal. bbls. gal		1.00 : 1.25
Powder, USP 25 lb bxs....	D	1.54	Hydride, 5 oz. tins 10 oz.	oz	5.35	Oil Mirbane, see nitrobenzene		
With chalk, USP 25 lb bxs....	D	.62	lots.....	oz	5.35	Opium, see crude drugs		
Meta-Nitroaniline, 300 lb bbls..	D	.78 : .80	Diacetyl Alk., 1/2 oz. via. 10	oz	3.95	Orange Mineral, 800 lb casks NY..	D	.15% : .16
Meta-Nitro-para-Toluidine, 300 lb			Hydride, 1/2 oz. via. 10 oz....	oz	3.19	500 lb bbls. NY....	D	.15% : .16%
bbls....	D	2.25	Ethyl Hydride, 1/2 oz. via. 10	oz	9.45	Ortho-Aminophenol, 50 lb kgs..	D	2.50
Meta-Phenylenediamine, 300 lb			Small Sizes: 1/4 oz. vials, 50c extra;			Ortho-Anisidine, 100 lb drs....	D	...
bbls....	D	.98 : 1.00	3/4s 25c extra; single oz. via., 7c ex-			Ortho-Dichlorobenzene, 1000 lb dra.		
Meta-Toluylenediamine, 300 lb			tra, over price for 5 oz. tins. 25 oz.			...	D	.15 : .17
bbls....	D	.95 : 1.00	lots in 5 oz. tins, 10c oz. lower than			Ortho-Nitrochlorobenzene, 1200 lb		
			above schedule. Less than 10 oz. lots			dra. wks....	D	.36 : .45
			15c oz. higher than above schedule.			Ortho-Nitrophenol, 350 lb 3 bbls..	D	.90 : .95
			Musk Ambrette, 1 lb cans....	D	14.50			
			Ketone, 1 lb cans....	D	13.00 : 14.00			
			Xylene, 5 lb cans....	D	2.75 : 3.00			

"Baker's"

Copper Chloride (Cupric)

The ideal catalyzer for Aniline Black Dyeing,
either for yarn or for padding machine dyeing.

Prevents streakiness and uneven dyeing.

This product is exceptionally free from cuprous
and makes a clear solution.

WHAT CHEMICALS DO YOU USE?

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know about "Baker's Analyzed"
C. P. Reagents and Acids?

J. T. BAKER CHEMICAL CO.

PHILLIPSBURG, N. J.

New York Representatives: H. E. PRIOR, 17 E. 42nd Street. Phone: Vanderbilt 9490

Chemicals

Ortho-Nitrotoluene, 1000 lb. drs. wks. ....	.09	: .10	Para-Phenylenediamine, 350 lb. bbls.	1.55	: 1.60	Phosphorus, red 110 lb. cs. wks. lb. ....	.50	: .55
Ortho-Toluidine, 350 lb. bbls. ....	.14	: .18	Para-Toluene-Sulfonamide, 175 lb. bbls. ....	.40	: .41	Imported, 112 lb. cases. ....	...	: .45
Oxgall, USP 5 lb. bot. ....	...	: 3.00	Para-Toluene-Sulfonchloride, 410 lb. bbls. wks. ....	.25	: .30	Yellow, 110 lb. cs. wks. ....	.30	: .35
PALLADIUM, metal 10 oz. lots.	51.00	: 53.00	Para-Toluidine, 350 lb. bbls. wks. lb. ....	.95	: 1.00	Imported, 112 lb. cases. ....	.25	: .27 1/2
Pancreatin, USP 5 lb. bot.	1.25	: 1.40	PARIS GREEN			Phosphorus Trichloride, 175 lb. cyl. wks. ....	...	: .35
Papain, 1 lb. bot.	2.15	: 2.25	Arsenic Basis, 500 lb. kegs. ....	.29	: .31	Phthalic Anhydride, 175 lb. bbls. lb. ....	.35	: .40
Paraffin, ref'd 200 lb. cs. slabs			Kegs, 100 lbs. ....	...	: .33	Pilocarpine Hydrochloride, USP 25 oz. lots, 1 oz. vials. ....	...	: 5.50
120-125 Deg. M. F. ....	.03 1/2	: .03 1/2	Kits, 56, 28, 14 lbs. ....	...	: .34	Nitrate ....	...	: 5.50
125-130 Deg. M. F. ....	.04	: .04 1/2	Packages, 5 and 2 lbs. ....	.35	: .37	Single ounces ....	...	: 5.75
130-135 Deg. M. F. ....	.04	: .04 1/2	Packages, 1 lb., 1/2, 1/4 lb. ....	.37	: .38	Alkaloid, 15 gr. vials. ....	...	: .75
135-140 Deg. M. F. ....	.05	: .05 1/2	Paris White, see whitening, French			Piperazine Hydrate, 1 lb. bot. ....	...	: 16.00
Para-Aminocetanilid, 100 lb. kegs.	1.25	: 1.35	Pepin, USP 5 lb. bot.	2.25	: 2.50	Pitch, Coal-Tar, wks.	30.00	: 33.00
Para-Aminophenol, 100 lb. kegs.	1.25	: 1.50	PETROLATUM, green 300 lb. bbls. lb. ....	.02 1/2	: .03	Plaster Paris, tech. 250 lb. bbls. bbl. ....	...	: 3.30
Hydrochloride, 100 lb. kegs. ....	...	: 1.50	Dark Amber 300 lb. bbls. ....	.03 1/2	: .04	True Dental, 300 bbls. ....	...	: 4.50
Para-Dichlorobenzene, 270 lb. bbls. wks. ....	.17	: .20	Light Amber, 300 lb. bbls. ....	.04 1/2	: .05	Platinum, metal soft 10 oz. lots. ....	...	: 112.00
Paraldehyde, 100 gal. drs. ....	...	: .35	Cream White, USP 300 lb. bbls. lb. ....	.07	: .07 1/2	Podophyllin, 5 lb. bot.	6.00	: 6.25
Paraformaldehyde, USP 100 lb. cs. lb. ....	.52 1/2	: .55	Lily White, USP, 300 lb. bbls. lb. ....	.09	: .09 1/2	Second Hands	5.25	: 5.50
Para-Nitroacetanilid, 300 lb. bbls. ....	.50	: .55	Snow White, USP, 300 lb. bbls. lb. ....	.13	: .13 1/2	POTASH, CAUSTIC, solid 85-92% 700 lb. drs. wks. ....	.08 1/2	: .08 1/2
PARA-NITROANILINE, 300 lb. bbls. wks. ton ....	.74	: .75	PHENOL, see also acid carbollic			Imp., 88-92% 700 lb. drs. NY. lb. ....	.08 1/2	: .08 1/2
Para-Nitrochlorobenzene, 1200 lb. drs. wks. ....	.21	: .30	Open market, 950 lb. drs. ....	...	: .50	USP, by alcohol 5 lb. cans. ....	.48	: .48
Para-Nitro-ortho-Toluidine, 300 lb. bbls.	2.75	: 2.85	240 lb. des drs. ....	...	: .50	cases ....	.30	: .35
Para-Nitrophenol, 185 lb. bbls. ....	.75	: .80	Natural 240 lb. des drs. wks. ....	...	: ...	POTASSIUM Acetate, USP 100 lb. kegs. ....	.28	: .29
Para-Nitrodimethylaniline, 120 lb. bbls.	1.25	: 1.30	Imported, 336 lb. des drs. ....	...	: ...	Bicarbonate, crys. 220 lb. bbls. lb. ....	...	: .09
Para-Nitrotoluene, 350 lb. bbls. ....	.55	: .65	Phenolphthalein, USP 100 lb. drs. lb.	1.55	: 1.60	Bichromate, crys. 900 lb. casks wks. ....	...	: .11
Para-oxo-Benzaldehyde, 100 lb. kegs.	1.50	: 1.60	5 lb. cans, 100 lb. lots.	1.55	: 1.60	Powd., 900 lb. casks wks. ....	.13	: .13 1/2
Para-Phenetidin, 500 lb. drs.	1.55	: 1.80	Phenylacetaldhyde, C.P., 1 lb. bot. lb.	9.00	: 12.50	Rinoxalate, 300 lb. bbls. ....	.33	: .34
			50 p.c.	6.00	: 8.00	Rhamfate, C.P. 5 lb. cans. ....	...	: .30
			Phenyl-Alpha-Naphthylamine 100 lb. kegs. ....	...	: ...	100 lb. kegs. ....	...	: .22
			Phenylethylalcohol, 1 lb. bot.	7.50	: 9.00	Bromate, 100 lb. cs. ....	...	: .45
			Imported	9.50	: 12.00	BROMIDE, USP cryst. 450 lb. bbls. ....	...	: .26
			Phosgene, cylinders, wks. ....	.60	: .62	Granular, 300 lb. bbls. ....	...	: .26
			Phosphorus Oxychloride, 175 lb. cyl. lb.35	: .40	Cases, 100 lb.	: .37
						Imported, USP, 220 lb. cs. lb.16	: .18

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Dimethylaniline

THE difference of a few cents a pound in the purchase price can never compensate for the heavy loss in yield of finished product that results from the use of inferior organic chemicals.

The surpassing quality of du Pont *Dimethylaniline* assures you of the greatest yields that can be expected of a commercial chemical reaction. Yet it costs no more than ordinary grades.

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It is well known that PURE PHTHALIC ANHYDRIDE crystallizes readily in the form of beautiful long needles. Impurities cause poorly formed and mixed crystals.

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The Selden Co.

PITTSBURGH, PENN., U. S. A.

Specifications on Request

Chemicals

POTASSIUM—(Continued)

CARBONATE, 80-85% calc.		
800 lb cks. ....lb	.06¼	.06½
80-85%, hydrated, 800 lb cks. ....lb	.08	.08¾
90-95% casks ....lb	.06½	.06¾
96-98% casks ....lb	.07¾	.08
99% casks ....lb	.08	.08¾
USP, 100 lb kegs ....lb	.10	.11
Chlorate, crys. 112 lb kgs. c/l wks. ....lb	.08¾	.08¾
Imp. 112 lb kegs NY ....lb	.07¾	.08
Powd., 112 lb kegs wks ....lb	.08¾	.08¾
Imp. kegs NY ....lb	.07¾	.08
Pyrotechnic, fine powd. NY ....lb	.08	.09
USP, fine crys. 110 lb kegs NY ....lb	.08	.09
Citrate, USP 10 lb cans ....lb	.63	.66
Cyanide, 110 lb cases ....lb	.46	.50
Glycerophosphate, 75% Soln. 25 lb tins ....lb	1.65	1.70
Gualacol Sulfonate, 5 lb cans, 10 lb ....lb	1.50	1.75
Hypophosphite, 10 lb cans ....lb	...	.85
Iodide, USP, 100 lb cases ....lb	3.75	3.85
Second Hands, cases ....lb	...	3.65
Lactophosphate, 4 oz bot. ....oz	...	.90
Metabisulfite, 300 lb bbls ....lb	...	.23
Imp., 300 lb bbls ....lb	.14	.16
Muriate, 80%, 200 lb bags, NY K ₂ O unit ....lb	...	.70
Nitrate, see Saltpetre		
Oxalate, neutral, 100 lb kegs ....lb	.40	.45
Perchlorate, 112 lb kegs ....lb	.09	.10
Permangan, USP crys, 112 lb drs. lb	.25	.26
Prussiate, red, 100 lb bbls ....lb	...	.85
500 lb casks ....lb	...	.80
Prussiate, yellow, 500 lb casks. lb	.37¼	.38
Salicylate, 25 lb cans ....lb	.70	.72

POTASSIUM—(Continued)

Sulfate, 200 lb bags, NY K ₂ O unit	...	.95
USP, VIII, 100 lb kegs ....lb	.18	.20
Sulfocyanide, CP 25 lb jars ....lb	...	.70
Tartrate, neutral, 100 lb kegs. lb	...	.53
Titanium Oxalate, 200 lb bbls. lb	...	.35
freight allowed ....lb	...	.04¼
Pumice Stone, lump, 250 lb bbls. lb	.04¼	.06
Lump, bags ....lb	.03¼	.05
Powdered, 350 lb bbls ....lb	.02¼	.03
Pyridine, 50 gal. drums ....gal	2.75	3.00
QUICKSILVER, see Mercury		
Quinidine Alk., 100oz tins ....oz	.70	.75
Sulfate, 100oz tins ....oz	...	.50
QUININE SULFATE, USP,		
American, 100oz tins ....oz	...	.50
1oz tins, 100oz lots ....oz	...	.57
Dutch, 100oz tins ....oz	...	.50
Java, 100oz tins ....oz	...	.50
Japanese, 100oz tins ....oz	...	.50
QUININE ALK., USP, 100oz tins. oz	...	.67
Acetate ....oz	...	.88
Arsenate ....oz	...	.88
Benzonate ....oz	...	.88
Bisulfate, USP ....oz	...	.50
Citrate ....oz	...	.62
Dihydride, USP ....oz	...	.66
Dihydride ....oz	...	.66
Dicarbonate, 10oz tins ....oz	2.50	
Ethyl Carbonate, 16 oz tins. oz	...	.95
Ferrocyanide ....oz	...	.88
Formate ....oz	...	.85
Glycerophosphate ....oz	...	.88
Hydriodide ....oz	...	.88
Hydrobromide, USP ....oz	...	.62
Hydrochloride, USP ....oz	...	.62
Hydrochlorosulfate ....oz	...	.66

QUININE—(continued)

Hydride & Urea, USP ....oz	...	.88
Hypophosphite ....oz	...	.83
Lactate ....oz	...	.78
Phenolsulfonate ....oz	...	.88
Phosphate ....oz	...	.74
Salicylate, USP ....oz	...	.63
Tannate, USP ....oz	...	.45
Tartrate ....oz	...	.88
Valerate ....oz	...	.89
Small Sizes: 1oz vials or cans, 50oz lots, 5c oz extra; 5oz cans, 50oz lots 3c oz extra; 25oz cans, 50oz lots, 2c oz extra; single 1oz vials or cans, 5c extra. All minor quinine salts sold and quoted basis 100oz lots in 100oz cans. Sulfate and bisulfate sold basis 100oz lots in 100oz cans. Smaller orders or containers extra as above schedule.		
S SALT, 250 lb bbls. wks ....lb	.55	.70
Red Lead, see lead oxide		
Red Precipitate, see mercury.		
Resorcin, see resorcinol.		
Resorcinol tech. 100 lb kegs ....lb	1.50	1.55
USP, 25 lb cans ....lb	2.00	2.10
Rochelle Salt, USP, 225 lb bbls ....lb	...	.21
Imp. USP, 300 lb bbls ....lb	.19¼	.20
Rosewater, triple, 5gal. demis. gal	.90	1.10
Rotten Stone, lump imp., bbls ....lb	.07	.03
Lump selected, bblslb	.09	.12
Powdered, bblslb	.02	.05
Domestic, bags, mineston	24.00	30.00



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LA PLAINÉ—GENEVA
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Chemicals

SACCHARIN, USP, 1 lb cans, 25 lb			Soap, Castile, 40 lb bxs..... lb			SODIUM ACETATE, crys 450 lb bbls		
Soluble, USP, 1 lb cans, 25 lb. lb	1.90	: 2.00	Powd. USP, 250 lb bbls..... lb	.28	: .29	wks. lb	.06%	: .06%
Safrol, 60 lb cans lb	.55	: .60	Green, USP, 150 lb kegs..... lb	.07	: .07%	Ton lots, bbls. wks..... lb	...	: .07
Sal Ammoniac, see Ammon. Chloride			Soapstone, see Talc, crude			Imp. 500 lb cases..... lb	...	: .07
Sallein, USP, 1 lb cartons, 25 lb. lb	5.00	: 5.25	Prices on soda alkalies are based on actual			Aluminum Sulfate, see alum soda.		
Salol, USP, 100 lb drums..... lb	.90	: .95	percentages and not N. Y. & L. test.			Benzonate, USP, 250 lb bbls... lb	.64	: .70
Salt, Common, see sodium chloride.			SODA ASH, 58% light bgs NY			Bicarbonate, 400 lb bbls NY100 lb	...	: 2.25
Salt Cake, c/l f.o.b. wks..... ton	28.00	: 30.00	flat, ex-warehouse .....100 lb	...	: 2.00	Bbls. c/l wks.....100 lb	...	: 2.00
SALTPETRE, Double Refined			Bbls., ex-warehouse.100 lb	...	: 2.25	112 lb kegs wks.....100 lb	...	: 2.25
Granular, 400-500 lb bbls.,			Contract, Basis 48% bags c/l			112 lb kegs, NY.....100 lb	...	: 2.50
c/l wks. lb	...	: .08	wks .....100 lb	...	: 1.20	Richromate, 600 lb cases wks.. lb	.07%	: .07%
Less c/l works, bbls..... lb	...	: .06%	Prompt and spot, Basis 48% bags			Casks, c/l wks..... lb	...	: .07%
Large Crystals, 350-400 lb bbls.,			c/l wks .....100 lb	1.25	: 1.30	Casks, NY lb	.08	: .08%
c/l wks. lb	...	: .07%	Soda Ash, 58% dense, bags ex-			Bisulfite, dry powder, 500 lb		
Small Crystals, 350-400 lb bbls.			warehouse, NY .....100 lb	...	: 2.07	bbls, wks lb	.04	: .04%
c/l wks. lb	...	: .07	Bbls., ex-warehouse.100 lb	...	: 2.30	Solution, 32-40°, 500 lb bbls	1.15	: 1.80
Powdered, bbls. c/l wks..... lb	...	: .07	Contract, Basis 48% bags c/l			wks .....100 lb	...	
Imported, 500 lb bbls, NY..... lb	.06%	: .06%	wks .....100 lb	...	: 1.25	Bromide, USP, Cryst 500 lb bbls	...	: .25
Santonin USP, 1 lb bot..... lb	175.00	: 177.00	Pmpt and spot, Basis 48% bags			Cases, 100 lb lb	...	: .25
Powd, 1 lb bot..... lb	176.50	: 178.50	c/l wks .....100 lb	1.30	: 1.35	Imp. USP, 112 lb cs..... lb	.20	: .22
Saponin, ex Quillaja, 5 lb tins... lb	1.25	: 1.54	SODA, CAUSTIC, 76% solid, remake,			Cacodylate, USP, 5 lb bot.		
Schaeffer's Salt, 250 lb bbls.wks.. lb	.60	: .65	NY flat .....100 lb	3.50	: 3.60	25 lb lb	6.00	: 6.25
Scopolamine, see hyoscine.			76% solid drs. ex-warehouse			Carbonate, sal soda, 350 lb bbls		
Seidlitz Mixture, 225 lb bbls.... lb	.17	: .19	NY .....100 lb	...	: 3.70	lc/l NY .....100 lb	1.30	: 1.35
SILICA			Contract basis 60% c/l wks			Works c/l .....100 lb	1.10	: 1.30
Crude, bulk, mines..... ton	10.00	: 12.00	100 lb lb	...	: 2.50	Monohydrate, 400 lb bbl,		
Refined, floated, bags..... ton	18.00	: 30.00	Pmpt and spot, Basis 60%			lc/l .....100 lb	...	: 2.45
Air floated, bags ton	32.00	: 50.00	c/l wks .....100 lb	2.57%	: 2.60	Pure photographic, 100 lb		
Extra, floated, bags..... ton	55.00	: 65.00	Contract 60% low grade c/l			keg lb	.08	: .09
SILVER, metal, American..... cs	...	: .99%	wks flat .....100 lb	...	: 2.65	Chlorate, 112 lb kegs, wks... lb	.06%	: .07
Foreign cs	...	: .67%	Ground & flake, 76% pmpt and			Imported, 112 lb kegs..... lb	...	: .06%
Colloidal, 16 oz bot..... cs	...	: 1.60	spot, wks c/l drs....100 lb	...	: 3.65	Chloride, tech 200 lb bags ton	12.00	: 15.00
Silver Iodide, 16 oz bot..... cs	...	: .88	Contract, 76% drums, c/l wks			C. P. 300 lb bbls..... lb	.65	: .66
Nitrate, USP, 200 oz bot..... cs	.45%	: .45%	flat .....100 lb	...	: 3.60	Citrate, USP, IX, 100 lb kegs. lb	...	: .62
Nucleinate, 16 oz bot..... cs	.33	: .37	76% drs. ex-warehouse NY100 lb	...	: 4.15	USP, VIII, 100 lb kegs... lb	...	: .55
Proteinates, 16 oz bot..... cs	.34	: .39	USP, stick, 10 lb cans..... lb	.19	: .21	Cyanide, 98-98%, 100 lb cases	...	: .23
			Pure, stick, by alcohol..... lb	.25	: .27	wks. lb	...	: .23
						Ton lots, wks..... lb	...	: .23
						73-76%, 100 lb cases, wks. lb	...	: .20%
						Imp. 123%, 200 lb cases... lb	.21	: .22
						120%, cases lb	.19%	: .20
						Fluoride, 350 lb bbls, NY imp. lb	.09%	: .09%



Soda Ash

Modified Soda Bicarbonate of Soda

Caustic Soda Special Alkali

Textile Soda

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DIAMOND ALKALI COMPANY

GENERAL OFFICES - PITTSBURGH, PA.

Chemicals

SODIUM—(Continued)


Glycerophos, USP, crys 25 lb		
cans	1.70	1.75
Powder, 25 lb tins	1.75	1.80
Solution, USP 25 lb tins	1.00	1.05
Hydroxide, see Soda Caustic		
Hypochlorite, Soln, 100 lb chys. lb	.05½	.06
Hydrosulfite, 200 lb bbls, fob, wks. lb	.19	.22
Hypophosphite, USP, 25 lb cans		
lb		.75
HYPOSULFITE, tech. pea crys.,		
375 lb bbls. wks. 100 lb	3.50	3.75
Bbls. c/l wks. 100 lb		3.25
100 lb kegs wks. 100 lb	3.75	4.00
Granulated, bbls. wks. 100 lb	3.75	3.90
Bbls. c/l wks. 100 lb		3.75
Kegs wks. 100 lb	4.20	4.50
Regular crystals 100 lb	2.75	3.00
Iodide, USP, 25 lb jars		4.25
Metanilate, 150 lb bbls	.55	.60
Naphthionate, 300 lb bbls	.60	.62
Nitrate, crude, 95%, 200 lb bgs		
c/l NY 100 lb		2.67½
Futures, NY 100 lb		2.67½
Double Redmed, 400 lb bbls		
gran. c/l wks. 100 lb		.04½
Nitrite, 500 lb bbls wks. lb	.09	.09½
Bbls. spot, makers		.09½
Imp. 650 lb casks	.08½	.08½
Ortho-Chloro-para-Toluene Sul-		
fonate, 175 lb bbls wks. lb	.25	.27
Oxalate, neutral, 100 lb kegs. lb		.47
Perborate, 275 lb bbls		.24
Imp., 225 lb drs	.18	.19
Peroxide, 200 lb cases	.25	.27
Phosphate, di-sodium, tech 550 lb		
bbls.	.03½	.03½
USP, gran. 275 bbls.	.07	.07½
Imp. gran.	.05½	.06
USP, recryst 275 bbls.	.10	.11
Mono-sodium 100 lb kegs.	.24	.26
Tri-sodium tech. c/l, bbls.	.04½	.05
Picramate, 100 lb kegs		.60

SODIUM—(Continued)

Para-Toluene Sulfonate, 175 lb		
bbls	.08	.09
PRUSSIAN, yellow, 450 lb cks. lb	.18½	.18½
Pyrophosphate, 100 lb kegs	.18	.22
Salicylate, 100 lb kegs	.57	.58
Second Hands, USP, kegs. lb	.48	.50
Silicate, 60° 700 lb bbls. f.a.s.		
NY 100 lb		2.00
Works, 1000 lb drums		1.90
Works, tanks 100 lb		1.75
40° domestic, 700 lb c/l f.o.b.		
wks. 100 lb		.80
Works, 1000 lb drums		.82½
Works, tanks 100 lb		.75
Spot, drums, bbls. 100 lb	1.25	1.50
Siliconfluoride, 450 lb bbls NY. lb	.07½	.08
Sulphate, see Glauber's Salt.		
Sulfide, 60% solid, 650 lb drs		
1c/l wks. 100 lb	.05	.05½
Drs. c/l wks. 100 lb		.04½
Imp. 700 lb drs NY. 100 lb		.04½
60% broken, 650 lb drs wks. lb	.05½	.05½
Imp. 500 lb drs NY. 100 lb	.04½	.04½
30% crys. 400 lb bbls wks. lb	.02½	.03
Imp. 400 lb bbls		.02½
Sulfite, crys, 400 lb bbls wks. lb	.03½	.03½
Dessicated, 400 lb bbls	.09½	.10
Sulfocarbonate, USP, 100 lb		
kegs	.36	.38
Sulfocyanide, 400 lb bbls	.45	.47
Tungstate, crys 100 lb kegs		.55
Dessicated, kegs		.65
Solvent Naptha, see Naphtha.		
Sparteine Sulfate, USP, 250s bulk. oz	.60	.70
Single oz. vial		.60
Starch, rice, 140 lb bags	.09	.10

STRONTIUM Bromide, USP, 100 lb

kegs		.33
Carb. 600 lb bbls. wks.		.07
100 lb kegs wks.		.08
Iodide, USP, 25 lb jars		4.00
Nitrate, 600 lb bbls. wks.		.12
Imp. bbls. NY.		.10½
Salicylate, USP, 100 lb kegs. lb		.65
STRYCHNINE Alkaloid, USP, crys		
1000s tins		1.15
Alk. powd, USP		1.05
Acetate		1.05
Glycerophosphate, USP		1.05
Hydrobromide		1.05
Hydrochloride		1.05
Hypophosphite		1.15
Nitrate, USP		1.05
Phosphate		1.05
Sulfate, USP, crys. powd.		.34
Saccharinate		2.15
Strychnine preparations quoted bases		
1000s lots in 1000s tins. Small Sizes:		
¼ oz vials, 50c extra; ½ oz vials, 25c		
extra; single ounce vials, 7c extra. Lots		
of 25 oz. 5c higher than above		
schedule. Lots of less than 25 oz.		
10c higher per oz.		
Sugar Milk, USP, 200 lb bbls	.31	.32
Second Hands, USP, bbls	.23	.24
Sulfonal, see Sulfonmethane.		
Sulfonmethane, USP, 5 lb bbs		3.50
Sulfonethylmethane, USP, bbs 5 lb		4.50
SULFUR, crude, bulk, c/l NY. ton		18.00
Crude, f.o.b. plant.		14.00
Brimstone, 250 lb bgs, c/l 100 lb	1.75	1.95
Leas c/l bags NY	1.00	1.85
Roll, 500 lb bbls c/l NY. 100 lb		2.15
Leas c/l bags NY	1.00	2.20
Flour, Heavy, 290 lb bbls, 100 lb	2.50	3.05
Light, 100%, 260 lb bbls, 100 lb	2.60	3.15
Rubbermakers 100%, 240 lb		
bbls, NY	2.60	3.15



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Our theory is this: We aim to make the kind of product and render the kind of service that we would like if we were at the other end.

SODA ASH

CAUSTICIZED ASH

CAUSTIC SODA

MODIFIED SODA

Chemicals

SULFUR—(continued)

Commercial, 99%, 150 lb bgs	1.35	: 1.65
NY	100 lb	
For Darning, 99%, 100 lb	2.00	: 2.50
bgs NY	100 lb	
Flowers, 100%, 240 lb bbls	3.00	: 3.55
NY	100 lb	
Precipitated, 125 lb bbls NY	.14	: .16
Lac, 125 lb bbls NY	.07	: .10
Sulfur Chloride, red, 700 lb drs		
Wks	.05	: .06
150 lb chys wks		
Yellow, 700 lb drs wks	.05	: .06
150 lb chys wks		
Sulfur Dioxide, 100 lb cyl	.08	: .08 1/2
Iodide, USP, VIII, 5 lb bot		
Sulfur Ether, see Ether		
Sulfuryl Chloride, 600 lb drs		
TALC, Italian, 220 lb bags NY	35.00	: 40.00
Refined, white, bags	42.00	: 55.00
French, 220 lb bags NY	25.00	: 30.00
Refined, white, bags	32.00	: 45.00
Dom, crude, 100 lb bags NY	15.00	: 18.00
Refined, 100 lb bags NY	20.00	: 30.00
Tartar Emetic, tech, 700 lb bbls	.27	: .27 1/2
USP, 300 lb bbls	.34 1/2	: .35 1/2
Terpin Hydrate, USP, 100 lb kegs	.70	: .72
Terpineol, CP 1000 lb drums	.53	: .55
Cans, 50 lb	.58	: .60
Imported, cans, 25 lb		
Terpenyl Acetate, 25 lb cans	1.65	: 1.85
Terra Alba, No. 1, 300 lb bbls	1.85	: 1.90
No. 2, bbls	1.25	: 1.35
Theobromine Alk., 5 lb cans		
and Sod. Salicylate, 1 lb bot		
Thiocarbamid, 170 lb bbls	.28	: .30
Thymol, USP, 10 lb cans	3.00	: 3.25
Iodide, 5 lb boxes		
TIN, Metal Straits, NY	100 lb	: 47.80
American standard, NY	100 lb	: 47.00
99% American, NY	100 lb	: 46.00
C.P. mossy, 25 lb bgs NY		

Tin—(continued)

Bichloride, 50% soln 100 lb		
bbls. wks.	.13 1/2	: .14 1/2
Crystals, 500 lb bbls. wks		
• 100 lb kegs, wks	.37	: .37 1/2
Oxide, 400 lb bbls. wks		
100 lb kegs wks	.52	: .54
Tetrachloride, 1000 lb drs. wks		
Tolidine, 350 lb bbls	.95	: .97
Sulfate, 350 lb bbls		
Toluene, 8000 gal tank cars, wks. gal		
110 gal drs wks	.35	: .35
Toluidine, Mixed, 900 lb drs. wks	.31	: .32
Tribromphenol, 100 lb cases		
Trional, see Sulfonethymethane		
Triphenyl Phosphate, 450 lb bbls		
Tripoli, 500 lb bbls	2.50	: 3.00
Tungsten NY	8.00	: 9.00
UREA, pharm 112 lb cases		
VANILLIN, USP, 4000s cans	.41	: .41 1/2
Cans, 80 cans		
Cans, 16 cans		
Vermilion, Amer. 100 lb kegs		
English, kegs	1.30	: 1.30
Veratrine Sulfate, 1 oz vial		
Hydrochloride, 1 oz vial		
Veronal, see Acid Diethylbarbituric		
WHITE LEAD, see lead, white		
White Precipitate, see mercury		
Whiting, 200 lb bags, c/l wks. ton		
Bags, 1/c l wks		
Gilders, bags	13.50	: 15.00
French, bags, NY		
English, bags, NY		
Witch Hazel Extract, 50 gal bbls. gal	1.20	: 1.25

XYLENE, 2° dist range, nitration		
thk. wks.		
110 gal. drs. NY		
5° dist. range, 8000 gal tanks		
wks.		
110 gal. drs. wks.		
Commercial, 110 gal drs., wks. gal		
Tanks, wks.		
Xylidine, 900 lb drs.		
YARA YARA, 1 lb tins	2.00	: 2.50
Yohimbin Hydrchloride, 1 oz. vial. oz	5.00	: 5.50
ZINC, METAL, high grade, slabs		
c/l NY		
Common Slabs, c/l NY	7.75	: 7.80
Mossy, 25 lb bgs NY		
Ammonium Chloride, powd., 400 lb		
bbls.	.07 1/2	: .08
Carb. tech, 150 lb kegs NY	.14	: .16
USP, 100 lb kegs		
Chloride, fused, 600 lb drs wks.		
Drs. c/l wks.	.08 1/2	: .09 1/2
Imp. drs NY	.08	: .08 1/2
Granulated, 500 lb bbls. wks.	.08	: .09
Imported, drs. NY	.08	: .08 1/2
USP, 25 lb jars		
Cyanide, 100 lb drs.	.42	: .43
Dust, 100 lb tins wks.	.10 1/2	: .11
500 lb bbls, kegs, c/l wks.		
500 lb bbls, kegs, c/l wks.		
Iodide, 5 lb bottles		
Nitrate, 25 lb jars		
Oxide, Amer. 300 lb bbls, wks.	.07 1/2	: .08
Bbls c/l wks		
French, 300 lb bbls wks	.09 1/2	: .11 1/2
Ebl c/l wks	.09 1/2	: .10 1/2
Bags, c/l wks	.09 1/2	: .10 1/2
USP, 100 lb bbls. c/l	.15 1/2	: .16 1/2
Ton lots, wks		
Imported, white seal, bbls		
Green seal, bbls		
USP, 100 lb bbls	.15	: .17
Stearate, USP, 60 lb bbls		
Sulfate, 400 lb bbls. wks.	.03 1/2	: .03 1/2
Bbls c/l wks	.08	: .09
USP, 100 lb kegs		
Sulfocarbonate, 100 lb kegs	.35	: .37

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Oils

Castor, No. 1, 400 lb bbls.	14 1/2	15
80 lb cases	15 1/2	16
No. 3, bbls.	14	14 1/2
Blown, 400 lb bbls.		15 1/2
China Wood, bbls, spot NY		35
8000 gal. tks. NY		27
May-June forward, tanks, NY		23
Coast, tanks, Apr. forward		23
Coconut Ceylon, 375 lb bbls. NY	10	10 1/4
8000 gal. tanks, NY		10 1/2
Cochin, 375 lb bbls, NY	10 1/4	11
Tanks, NY	09 1/4	10
Manila, tanks, Coast		08 1/4
Edible, bbls, NY	11	11 1/4
Cod Newfoundland, 50 gal. bbls. gal	70	72
Tanks, NY	66	68
Copra, bags		06
Corn, ref. 375 lb bbls. NY		13 1/4
Crude, tanks mills	10 1/2	10 1/4
Bbls, NY	12 1/2	13
COTTONSEED, crude tks. mills	10	10 1/4
P. S. Y. 100 bbl. lots NY		11
White, 100 bbl. lots NY		11 1/4
Winter yellow, 100 bbls. NY		11 1/4
Deers, Amer. 50 gal. bbls. NY		04 1/2
English, bbls, NY	04 1/2	05
Neutral, bbls, NY	09	14
Grease, choice white bbls, NY	10	10 1/4
Yellow		08 1/4
Brown		08 1/4
House		08 1/4
Bone naphtha		08 1/4
Herring, Tanks, Coast		12 1/4
Horse, 375 lb bbls, NY		13 1/2
Lard, prime steam bbls		12 1/4
Compound, bbls		13 1/2
LARD OIL, Edible prime, bbls		15 1/4
Off prime, bbls		14 1/4
Extra, bbls		14
Extra No. 1, bbls		13 1/4
No. 1 bbls		13 1/4
No. 2 bbls		12 1/4

LINSEED, raw c/l bbls, spot	gal	1.13
Five bbls, raw	gal	1.16
Boiled, 5 bbl. lots	gal	1.19
Double boiled 5 bbl. lots	gal	1.13
Raw, 1c/l bbls	gal	1.10
May-June, c/l bbls	gal	1.10
Imported, bbls, NY	gal	1.10
Menhaden, crude, bbls, wks	gal	1.10
Crude, tanks wks Balt	gal	1.10
Light strained, tanks	gal	1.10
Light strained, bbls, NY	gal	1.10
Yellow bleached, bbls, NY	gal	1.10
Blown, bbls, NY	gal	1.10
Neatsfoot, 20° c.t. bbls. NY	lb	1.10
30° cold test, bbls. NY	lb	1.10
Prime, bbls, NY	lb	1.10
Gleo Oil, No. 1, bbls. NY	lb	1.10
No. 2, bbls, NY	lb	1.10
No. 3, bbls, NY	lb	1.10
OLIVE, denatured bbls. NY	gal	1.10
Edible, bbls, NY	gal	1.10
Foots, bbls, NY	gal	1.10
Shipment	lb	1.10
Palm Lago, 1500 lb casks	lb	1.10
Niger, casks	lb	1.10
Bonny old Calabar, casks	lb	1.10
Palm Kernel, 1500 lb casks NY	lb	1.10
Peanut, refined bbls, NY	lb	1.10
Crude, mills buyers' tks	lb	1.10
Crude, bbls, NY	lb	1.10
Apr. Arriv. f.o.b., NY bbls	lb	1.10
Perilla, bbls, NY	lb	1.10
Apr-May, ship. bbls, NY	lb	1.10
Poppyseed, bbls, NY	gal	1.10
Rapeseed, refined bbls, NY	gal	1.10
Blown, bbls, NY	gal	1.10
Red Oil, distilled, bbls	lb	1.10
Saponified, bbls	lb	1.10
Salmon, 8000 gal. tks. Coast	gal	1.10
Sesame, domestic edible bbls	gal	1.10
Sod Oil, bbls, NY	gal	1.10

SOYA BEAN, crude tks. Coast	lb	1.10
Crude, Tks. D.P., NY	lb	1.10
Crude, bbls, NY	lb	1.10
Refined, bbls, NY	lb	1.10
Sperm, 38° c. t. blechd. bbls, NY	gal	1.10
45° cold test, blechd. bbls, NY	gal	1.10
STEARIC ACID, s. p. 200 lb bags	lb	1.10
Double pressed, bgs	lb	1.10
Triple pressed, bgs, saponified	lb	1.10
Triple pressed, bgs, distilled	lb	1.10
Triple pressed, bgs, saponified	lb	1.10
Stearine, oleo, bbls	lb	1.10
Lard, bbls	lb	1.10
Tallow, edible, tierces	lb	1.10
City extra, loose	lb	1.10
Tallow Oil, acidless tks, NY	lb	1.10
Bbls, c/l NY	lb	1.10
Teaseed, crude bbls, NY	lb	1.10
Walnut, crude bbls, NY	lb	1.10
Whale, nat. winter bbls, NY	gal	1.10
Bleed, winter bbls, NY	gal	1.10
Extra Bleed, bbls, NY	lb	1.10
Crude, No. 1, tanks Coast	lb	1.10
Crude, No. 2, tanks Coast	lb	1.10
Crude No. 3, tanks Coast	lb	1.10

Fertilizer Materials

Ammon. Sulf. bulk wks	100 lb	3.50
Double bgs. f.a.s. NY	100 lb	4.10
Blood, dried f.o.b. NY	unit	4.75
Bone, 3 & 50 ground raw	ton	32.00
Raw, Chicago	ton	30.00
Cyanamide wks	unit	2.20
Fish Scrap, dried wks	unit	2.25
NITRATE SODA, NY	100 lb	2.67 1/2
Phosphate Rock, f.o.b. mine		
Florida pebble, 68-78%	ton	3.00
Tennessee, 70-75%	ton	3.00
Phosphate Acid, 16% Bulk wks	ton	10.00
Potassium Murate, 80%	unit	68
Sulfate	unit	93
Steamed Bone Meal, NY	ton	35.00
Tankage, ground NY	unit	4.50
High grade, f.o.b. Chicago	unit	4.65

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Naval Stores

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Spirits Turpentine, bbls.....gal	1.59	1.60
Wood Turpentine, stm. distd. bbls.gal	1.45	1.45
Destructive distilled, bbls.....gal	1.15	1.15
Pitch, prime.....bbl	6.00	6.50
Resins. (Sold in 600 lb bbls., gross for net, quotations based on a unit of 280 lb)		
B.....280 lb	6.20	6.20
D.....280 lb	6.30	6.30
E.....280 lb	6.30	6.30
F.....280 lb	6.30	6.30
G.....280 lb	6.30	6.30
H.....280 lb	6.30	6.30
I.....280 lb	6.30	6.30
K.....280 lb	6.35	6.35
M.....280 lb	6.40	6.40
N.....280 lb	6.75	6.75
WG.....280 lb	7.00	7.00
WW.....280 lb	8.00	8.00
Resin Oil, first run, 50 gal. bbls.gal	47	47
Second run, bbls.....gal	49	49
Tar, kiln-burnt.....bbl	12.50	12.50
Retort.....bbl	13.50	13.50

Woods

Barwood, chips.....lb	.04½	.05
Camwood, chips.....lb	.09	.13
Divi Divi, pods 100-200 lb bags.ton	38.00	40.00
Fustic, sticks.....ton	30.00	35.00
Chips.....lb	.04	.06
Hemlock, bark.....ton	16.00	18.00
Hyperic, chips.....lb	.06½	.07
LOGWOOD, sticks.....ton	28.00	30.00
Chips 150 lb bags.....lb	.02½	.03
Mangrove bark, African.....ton	35.00	35.00
Bark, South American.....ton	25.00	30.00

Myrobalans, 150 lb bags J1.....ton	35.00	35.00
B1.....ton	35.00	35.00
R2.....ton	27.00	27.00
Nutgalls, see Crude Drugs.		
Oak bark, whole.....ton	20.00	22.00
Ground.....ton	25.00	25.00
Quercitron bark, rough.....ton	10.00	10.00
Ground.....ton	20.00	25.00
Sumac, Sicily, 160 lb bags.....ton	57.00	60.00
Virginia, 150 lb bags.....ton	35.00	35.00
Valonia Cups, 28-33% tan.....ton	34.00	36.00
Beard, 40% tan, 150 lb bags.ton	56.00	60.00
Wattle bark, 150 lb bags.....ton	38.00	40.00

Extracts

Range of prices includes quality range for large quantity.

Annatto, fine.....lb	.26	.29
Archil, double 600 lb bbls.....lb	.16	.18
Triple, 600 lb bbls.....lb	.17	.19
Conc., 600 lb bbls.....lb	.18	.20
Chestnut, clarified, 25% tks. wks.ton	2.25	2.25
Bbls., wks.....lb	2.75	2.75
Powd., 60% 100 lb bla. wks.....lb	.05½	.05½
Decolorized, bbls. wks.....lb	.09	.09½
Cudbear, English.....lb	.21	.23
Cutch, Rangoon, 100 lb bales.....lb	.13	.16
Borneo, solid, 100 lb bales.....lb	.04½	.05½
Liquid, 450 lb bbls.....lb	.10	.11
Tablets, 120 lb boxes.....lb	.13	.14
Flavine.....lb	.90	.95
Fustic, solid 50 lb boxes.....lb	.14	.18
Crystals, 100 lb boxes.....lb	.22	.24
Liquid, 51°, 600 lb bbls.....lb	.10	.14
Gal extract.....lb	.16	.18
Gambier, 25% liq. 450 lb bbls.....lb	.08½	.09½
Common, 200 lb cases.....lb	.06½	.05½
Singapore cubes, 150 lb bags.....lb	.07	.07½
HEMATINE, Paste, 500 lb bbls.....lb	.11½	.13½
Crystals, 400 lb bbls.....lb	.16	.20
Hemlock, 25% 600 lb bbls. wks.....lb	.03½	.03½
Hyperic, 51°, 600 lb bbls.....lb	.15	.20
Indigo, Madras bbls.....lb	.85	.90
Manilla, bbls.....lb	1.30	1.30

Larch, 25%, 600 lb bbls., wks.....lb	.03½	.03½
Powd. 100 lb bags, wks.....lb	.07½	.08
Logwood, 51°, 450 lb bbls.....lb	.07½	.12½
Solid, 50 lb boxes.....lb	.15	.21
Madder, Dutch.....lb	.28	.30
Mangrove, 55% 400 lb bbls.....lb	.05½	.05½
Myrobalans, 25% liquid bbls.....lb	.04	.05
50% solid, 50 lb boxes.....lb	.04½	.05
Oak, tanks wks.....lb	.04	.04½
23-25% liq. 600 lb bbls. wks.....lb	.05	.05½
Oeage Orange, 50° liquid.....lb	.07	.08
Powd. 100 lb bags.....lb	.15	.16
Persian Berries.....lb	.27	.30
QUESBRACHO, 35% liquid tks.....lb	.03	.03½
450 lb bbls.....lb	..	.04½
35% bleaching, 450 lb bbls.....lb	.04½	.05½
Solid 85% 100 lb bales.....lb	.04½	.05½
Clarified bales.....lb	..	.06
Quercitron, 51° 450 lb bbls.....lb	.06½	.07½
Powdered, 100 lb boxes.....lb	.09	.13
Spruce, 25% liquid tanks wks.....lb	.01	.01½
Powd. 50% 100 lb bags wks.....lb	.02	.02½
Sumac, liquid 450 lb bbls.....lb	.07	.09

DYERS' SUPPLIES

Albumen, technical, egg 200 lb cs.....lb	..	.38
Blood, domestic, 100 lb dms.....lb	..	.45
British Gum, 140 lb bags c/l 100 lb	3.74	3.94
Bags lc/l.....100 lb	3.84	4.04
Dextrin, corn 140 lb bags c/l 100 lb	..	3.59
Bags lc/l.....100 lb	..	3.49
Yellow, bags, c/l.....100 lb	..	3.44
Potato 140 lb bags c/l.....100 lb	..	.97
Bags, lc/l.....100 lb	..	.07½
Taploca, 200 lb bags, lc/l.....100 lb	..	.08½
Prussian blue.....lb	.60	.62
Sago Flour, 150 lb bags.....lb	.04½	.05
Spray Yolk 150 lb cs.....lb	.35	.45
STARCH, powd. 140 lb bgs.c/l 100 lb	..	2.82
Bags lc/l.....100 lb	..	2.92
Pearl, 140 lb bags c/l.....100 lb	2.72	2.82
Potato, domestic, 200 lb bags.....lb	.05	.05½
Imported, bags duty paid.....lb	.05½	.06½
Taploca Flour, high grade bags.....lb	.06½	.06
Medium grade, bags.....lb	.05½	.06
Low grade, bags.....lb	.04½	.04½
Turkey Red Oil, bbls.....lb	.11	.12
Yolk Oil, bbls.....lb	..	.35

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Aceroides Gum, yel.	.18	.30
ACONITE Leaves, bales	.16	.17
Aconite Root, USP, bags	.35	.40
Agar Agar, 1, 200 lb bales		1.95
No. 2, bales		1.65
No. 3, bales		1.55
Agarie, white, cases		
Almonds, bitter bags bxs	.32	.35
Sweet, bags	.45	.46
Meal, tins, boxes	.28	.30
Aletris Root, bags	.60	.62
Alkanet Root, bags	.08	.10
Aloe, Barbadoes, 120 lb bbls	.70	.75
Cape, 400 lb cases	.09 1/2	.10
Curacao, 100 lb cases	.08 1/2	.09
Socotrine, whole 100 lb cs	.30	.32
Althea Root, cut cases	.15	.16
Whole bags	.09	.10
Ambergris, black boxes		8.00
Grey, boxes		28.00
Ammoniac, tears, bags	1.35	1.40
Angelica Root, dom, bags	.14	.15
Angostura Bark, bags	.08	.10
Anise, Levant bags	.17	.17 1/2
Star, cases	.14 1/2	.15
Spanish, bags	.27	.29
Anatto Seed, bags	.06	.07
ARABIC GUM		
White, No. 1, 200 lb bags	.26	.27
Seconds, 250 lb bags	.24	.26
Sorts, amber, 200 lb bags, bla	.15 1/2	.16
Powd., USP, 300 lb bbls	.22	.23
Areca Nuts, 150 lb bags		.09
Powd., 200 lb bbls		.12
Arnica Flowers, bales	.10	.11
Root, bags	.20	.22
Arrowroot, Amer. powd. bbls	.05 1/4	.06
St. Vincent, powd. bbls	.15 1/2	.16
Asafetida, USP, 250 lb cases	.32	.35
Powd., 50 lb bxs	.55	.60
BALM GILEAD BUDS, bags	.44	.45
Balmory Herb, bales		.14

BALSAMS

Copaiba, Para, 80 lb cs	.23	.25
South American, 80 lb cs	.28	.29
Fir Canada, cans	12.00	13.00
Oregon, bbls., cans		3.75
Peru, 120 lb cases	1.80	1.85
Tolu, 90 lb cases	.85	.90
Bamboo Briar Root, bags	.06	.07
Barberry Bark, tree bales	.22	.24
Bayberry Bark, bales	.10	.12
Wax, bbls.	.50	.55
Belladonna Leaves, bales	.17	.18
Bees Wax, white bbls.	.36	.37
Yellow, refined bbls.	.23	.26
Crude, bags	.20	.22
Benzoin Gum, Siam, boxes	1.15	1.20
Sumatra, 80 lb boxes	.30	.32
Berberis Aquifolium Root, bags	.16	.17
Beth Root, bags	.18	.20
Blackhaw Bark, root, bales	.38	.40
Fresh, bales	.24	.25
Blood Root, bags	.13	.15
Blueflag Root, bags	.23	.25
Boldo Leaves, bales	.20	.21
Boneset Herb, bales	.08	.10
Roraga Flowers, bales	.25	.27
Bryonia Root, bags	.10	.11
BUCHU LEAVES, short, 250 lb		
bales	.90	.95
Less, bales	.95	.97
Long, bales		.08
Buckthorn Bark, bales	.07	.08
Burdock Root, bags	.20	.22
Burgundy Pitch, dom. 110 lb stands		
Gross for net		.05
Calabar Beans, bags	.13	.14
Calamus Root, bleached cases	.42	.47
Unbleached, bags	.07	.08
Calendula Petals, imp. bales		.30
Calisaya Bark, bales	.18	.20
Camphor, see Chemicals		
Canary Seed, Morocco bags	.06	.06 1/2
South American, bags	.05 1/4	.05 1/2
Candelilla Wax, bags	.27	.30
Cannella Alba Bark, bales	.51	.53
Cannabis, true imp. bags		5.75
American (no assay) bales	.90	1.00

Cannabis, USP, bales		2.00
Cantharides, Chinese cases	1.05	1.10
Powd., boxes	1.25	1.35
Cantharides, Russian, cases	1.75	1.90
Powdered, boxes	1.90	2.00
Caraway Seed, African bags		
Dutch, 110 lb bags	.32	.33
Cardamom bleached cases	1.40	1.75
Decorticated, cases	1.15	1.25
Green, grinding, bags	1.05	1.10
Carnauba Wax, Flor. bags	.45	.48
No. 1 N Country bags	.40	.43
No. 2 N Country bags	.33	.35
No. 3 Fatty Gray, bags	.20	.21
No. 3 Chalky, bags	.16 1/2	.17
Cascara Amara, 150 lb bales	.30	.32
Cascara Sagrada, bales	.14	.14 1/2
Cascarilla Bark, quills bales	.30	.35
Siftings, bbls.	.20	.25
Cassia Buds, 60 lb cases	.15	.16
China, select, mata cases	.06 1/2	.08
Saigon, assort. bales	.24	.27
Cassia Fistula, baskets		.12
Castor Beans, bags	.03	.03 1/2
Castoreum, 1 lb bot.	4.00	4.50
Catechu Gum, bags	.09	.10
Catnip Herb, bales	.12	.15
Celery Seed, 220 lb bags	.24	.24 1/2
Ceresin Wax, white bags	.08 1/2	.09
Yellow, 200 lb bags	.07 1/2	.08
CHAMOMILE FLOWERS, Roman		
bales	1.20	1.35
Hung. cases bales	.15	.17
Charcoal Willow, powd. bbls.	.06	.06 1/2
Wood, powd. bbls.	.04	.05
Chestnut Bark, bags	.07	.08
Herb, bales	.06	.06 1/2
Chicle Gum, bags	.80	1.00
Chiretta, bales	.13	.14
Cinchona Bark, red quills bales	.55	.60
Broken, bales	.19	.20
Cinnamon, Ceylon, bales, bond.	.20	.22
Civet, Abyssin horns	2.75	3.75
Clover Tops, bags	.09	.10
Cloves, Zanzibar, 135 lb bales	.26 1/2	.27
Amboyas, bales		
Penang, bales		

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Cochineal, USP boxes.....	.40 : .45	Dogwood Bark, Jamaica bags.....	.11 : .12	Grindella Robusta Herb, bales....	.09 : .10
Coca Leaves, Huancayo bags.....	... : ...	Flowers, bales.....	... : .15	Guaiac Gum, 80 lb cases.....	.40 : .42
Truxillo, bags.....	.40 : .45	Doggrass Root, USP, cut bags.....	.12 : .14	Guarana, tins, cases.....	.60 : .75
Cohosh Root, Black bags.....	.09 : .09 1/2	Dragons Blood, mass cases.....	.60 : .62	GUM, see Arable Gum, etc.	
Blue, bags.....	.09 : .09 1/2	Reeds, boxes.....	1.40 : 1.45	HELLEBORE ROOT,	
Colchicum Root, bags.....	.08 : .09	ECHINACEA ROOT, bags.....	.33 : .34	Black, pwd. bbls.....	... : .14
Seed, bags.....	.10 : .11	Elecampane Root, bags.....	.08 1/2 : .09	White, bags.....	.12 : .14
Colombo Root, whole bags.....	.02 : .04	Elder Flowers, bales.....	.21 : .22	Powdered, 250 lb bbls.....	.16 1/2 : .17 1/2
Colocynth, apples, cases, bales....	.17 : .22	Elemi Gum, 80 lb cases.....	.10 : .11	Helonias Root, (unicorn false)	
Pulp, USP, bales.....	.55 : .57	Elm, select, 5 lb bundles cases....	.26 : .27	bags.....	... : .68
Coltsfoot Leaves, bags.....	.06 : .07	Grinding, bags.....	.10 : .12	Hemp Seed, Manchurian bags.....	.03 1/2 : .04
Comfrey Root, bags.....	.13 : .14	Powdered, bbls.....	.16 : .17	Chilian, bags.....	... : .
Condurango Bark, bales.....	.14 : .15	ERGOT, 150-200 lb bags.....	.52 : .55	Herbaceous Leaves, bales, U.S.P....	.40 : .45
Conium Seeds, bags.....	... : .16	Eucalyptus Leaves, bales.....	... : .05	Henna Leaves, bales.....	.16 : .18
Copaiba Balsam Para, see Balsams		Euphorbia Pilulifera Herb, bags....	... : .20	Powdered.....	.22 : .23
Copal Gum.....	.12 : .15	Euphorbia Gum, cases.....	... : .25	Honey, Calif., 120 lb cases.....	.10 : .10 1/2
Coriander Seed, Bombay bags.....	.10 : .11	Powdered, boxes.....	... : .30	Hops, N. Y. prime bales.....	.18 : .20
Morocco, bags.....	.11 : .12	Fennel Seed, French, bags.....	.17 1/2 : .18	Pacific Coast prime bales.....	.16 : .18
Bleached, bags.....	.14 1/2 : .15	German, bags.....	.21 : .22	Horshound Herb, bales.....	... : .11
Corn Silk, bales.....	.05 : .05 1/2	Flax Seed, whole 180 lb bbls.....	... : 12.25	Horsetail Rush, bags.....	... : .16
Cotton Root Bark, bales.....	... : .15	Ground, 180 lb bbls.....	.06 1/2 : .07	India Gum, see Karaya	
Cramp Bark, so-called bales.....	... : .08	Foenugreek Seed, 200 lb bags....	... : .08	INSECT FLOWERS, open whole	
True, bags.....	... : .40	Fish Berries, 100-125 lb bags.....	.03 1/2 : .04	bales.....	... : ...
Cranesbill Root, bags.....	.10 : .11	Fringe Tree Bark, bags.....	.17 : .18	Closed whole, bales.....	... : ...
CUBEBS BERRIES, XX bags.....	.82 1/2 : .85	GALANGAL ROOT, bags.....	.08 : .09	Powdered, pure 200 lb bbls.....	.70 : .75
Powdered, boxes.....	... : .85	Gambier Gum, bags.....	.10 1/2 : .11	Flowers and stems, 50 p. e.	
Culvers Root, bags.....	.28 : .30	Galbanum Gum, cans.....	1.20 : 1.35	200 lb bbls.....	.42 : .43
Cumin Seed, Levant bags.....	... : ...	Gamboge Gum, 160 lb cases.....	1.05 : 1.17	Ipecac Root, Cartagena, bags.....	... : 1.90
Morocco, bags.....	.26 1/2 : .28 1/2	Powdered, cases.....	1.15 : 1.20	Powdered, 200 lb bbls. boxes....	... : 2.10
Cuttifish Rose, Trieste, straps....	.17 : .19	Gelsemium Root, bags.....	.11 : .11 1/2	Rio Whole, bags.....	... : 1.90
Jewellers, large, straps.....	... : .55	Gentian Root, bags.....	.09 : .09 1/2	Powdered, 200 lb bbls. boxes....	2.10 : 2.20
Small, straps.....	... : .35	Ginger, African, bags.....	.15 1/2 : .16	Isinglass, American, 130 lb cs....	.65 : .70
French, straps.....	.17 : .19	Jamaica, grinding, bags bbls....	.37 : .44	Russian, (Beluga) box ctms....	... : 10.00
Powdered, boxes.....	... : .13	Japan, bags.....	... : .15 1/2	JABORANDI LEAVES, bales.....	.20 : .22
Broken, boxes.....	.07 : .08	Cochin. ABC & lemon, bags....	.15 1/2 : .16	Jalap Root, whole 150 lb bags....	.35 : .40
Damar Gum, 136 lb cases.....	.32 : .34	Ginseng Root, cultivated, bags....	8.00 : 10.00	Powdered, USP 250 lb bbls....	.40 : .42
Damiana Leaves, bales.....	.11 : .12	Northwestern Wild, bags.....	14.00 : 15.00	Japan Wax, 224 lb cases.....	.15 : .16
Dandelion Root, Imp., bags.....	.16 : .17	Southern Wild, bags.....	10.00 : 12.00	Job's Tears, white bags.....	.08 : .09
Deer Tongue Leaves, bales.....	.07 1/2 : .08	Golden Seal Root, bags.....	3.20 : 3.25	Juniper Berries, 125 lb bags.....	.03 : .03 1/2
Digitalis Leaves, bales.....	.06 1/2 : .08	Powdered, boxes.....	3.55 : 3.65	KAMALA, boxes.....	2.60 : 2.75
Dill Seed, bags.....	.09 1/2 : .10	Grains of Paradise, bags.....	.12 : .14	Karaya Gum, powdered, bbls....	.15 : .20
				Kava Kava Root, bags.....	.17 : .18
				Kino Gum, black cases.....	.50 : .55
				Kola Nuts, 150 lb bags.....	.04 1/2 : .05
				Kousso Flowers, bags.....	2.25 : 2.50

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Larkspur Seed, bags.....lb	.39	.41	Tonquin.....oz	22.00	25.00	Pepper, black Sing, bags.....lb	.11	.11½
Laurel Leaves, bales.....lb	.05	.05½	Grain Cab.....oz	25.00	26.00	White, bags.....lb	.14	.14½
Lavender Flowers, Ordinary.....lb	.25	.32	Tonquin.....oz	35.00	38.00	Peppers, red Mombasa bags.....lb	.28	.29
Selected.....lb	.35	.37	Synthetic, see Chemicals			Cherries, bags.....lb	.16½	.17
Leeches, tubs.....Per 100	7.00	7.50	Musk Root, Russian bags.....lb	...	...	Bombay, bags.....lb	.14½	.15
Lemon Peel, bags.....lb	.09	.10	Mustard Seed, Bari brown bags.....lb	.08½	.09	Japan, bags.....lb	.28	.30
Licorice Root, Russian whole.....lb	.09	.09½	Bombay, brown.....lb	.07	.08	Pennyroyal Herb, bales.....lb	.08	.12
Spanish, natural bales.....lb	.09	.09½	California, brown.....lb	.09	.09½	Peppermint Leaves, imp. bales.....lb	...	.35
Powdered, bbls.....lb	.10	.11	Yellow.....lb	...	.09	Domestic leaf.....lb	.27	.29
Selected, 2 & 5 lb bundles.....lb	.17½	.20	Chinese, yellow.....lb	.04	.04½	Peru Balsam, see Balsams		
Cuttings, 125 lb bags.....lb	.07½	.08	English, yellow.....lb	.08½	.09	Pichi Leaves, bags.....lb	.23	.25
Life Everlasting Herbs, bales.....lb	.05	.06	Dutch, yellow.....lb	.09	.09½	Pimento, select bags.....lb	.04½	.04
Lime Juice, clarified bbls.....gal	.50	.60	Danish, yellow.....lb	.08½	.09	Pink Root, true bags.....lb	...	1.20
Linden Flowers, with leaves, bales.....lb	.18	.20	Myrrh Gum, select 200 lb cs.....lb	.38	.40	Pitch, Burgundy, see Burgundy Pitch		
Without Leaves, bales.....lb	.38	.40	Sorts, cases.....lb	.36	.38	Pleurisy Root, bags.....lb	...	.22
Liverwort Leaves, bales.....lb	.30	.32	NUTGALLS, Chinese bags.....lb	.15	.16	Plantain Leaves, bales.....lb	...	.15
Lobelia Herb, bales.....lb	...	.15	Aleppy, bags.....lb	.14	.15	Poke Root, bags.....lb	...	.07
Lobelia Seed, bags.....lb	.55	.60	Nutmegs, 110s cases.....lb	.24	.25	Pomegranate Bark, of root bags.....lb	...	.30
Lorag Root, Imported, bags.....lb	...	.25	75s, 80s cases.....lb	.26	.27	Of fruit, bags.....lb	...	.30
Lupulin, boxes.....lb	1.40	1.50	Nux Vomica Buttons, bags.....lb	.06½	.07	Of tree.....lb	...	.30
Domestic.....lb	1.30	1.40	Powdered, 200 lb bbls.....lb	.11	.11½	Poppy Flowers, red bags.....lb	.30	.35
Lycopodium, 88 lb cs.....lb	.35	.40	OAK BARK, red bags.....lb	.05	.06	Poppy Seed, Dutch, bags.....lb	.12½	.13
MACE, Slaus, No. 1 cases.....lb	.44	.45	White, bags.....lb	.05	.06	German, bags.....lb	.11½	.12
Banda, No. 1 cases.....lb	.46	.47	Oilbanum Gum, sift 280 lb cases.....lb	.10	.11	Turkish, bags.....lb	.06	.08
Batavia, cases.....lb	.38	.39	Tears, 280 lb cases.....lb	.13	.14	Blue Indian, bags.....lb	.08	.08½
Malva Flowers, blue bales.....lb	.35	.38	No. 1, all white, 280 lb cases.....lb	.21	.22	White Indian, bags.....lb	.07	.07½
Black, bales.....lb	.65	.75	Opium, gum USP cases.....lb	...	6.75	Prickly Ash Bark Southern, bags.....lb	.14	.14½
Manna, large flake cases.....lb	.58	.60	Granular, cans.....lb	...	7.75	Northern, bags.....lb	.14	.14½
Small flake, cases.....lb	.33	.34	Powdered, USP cans.....lb	...	7.75	Prickly Ash Berries, bags.....lb	.11	.13
Sorts, cases.....lb	.30	.32	Orange Flowers, cases.....lb	...	1.00	Prince's Pine, bales.....lb	.14	.15
Mandrake Root, bags.....lb	...	.18	Orange Peel, bitter bags.....lb	.06½	.07	Pulsatilla Herb, bags.....lb	.37	.40
Mastic Gum, 120 lb cases.....lb	.45	.48	Sweet, bags.....lb	.08½	.07	Pumpkin Seed, bags.....lb	.14	.16
Mesercon Bark, bags.....lb	.11	.12	Gris Root Florentine bold bags.....lb	.07	.08	QUASSIA CHIPS, bags.....lb	.07½	.08
Matico Leaves, bales.....lb	.20	.22	Verona, bags.....lb	.05	.06	Queen of the Meadow Herb, bags.....lb	...	.06
Marjoram Leaves, German bales.....lb	.17	.18	Powdered, 200 lb bbls.....lb	.08	.09	Quince Seed, bags.....lb	1.30	1.35
French, bales.....lb	.15	.15½	Fingers, cases.....lb	.65	.70	HAPE SEED, South Amer. bags.....lb	.07	.07½
Millet Seed, dom. yellow bags.....lb	.03½	.05	Ozokerite Wax, brown hard bags.....lb	.22	.24	Dutch, bags.....lb	.08	.08½
Montan, Wax, crude bags.....lb	.04	.04½	Green, hard bags.....lb	.25	.26	Japanese, small, bags.....lb	.06½	.06½
Bleached.....lb	...	...	Refined, yellow bags.....lb	...	...	Raspberries, dried boxes.....lb	.35	.40
Moss, Iceland bales.....lb	.08	.09	PAPRIKA, bags.....lb	.17	.24	Red Saunders.....lb	.17	.19
Irish, bleached bales.....lb	.09	.10	Hungarian.....lb	.27	.37	Rhatany Root, bags.....lb	...	.10
Mullein Flowers, tins.....lb	...	1.25	Pareira Brava Root, bags.....lb	.19	.20	RHUBARB, H. D. cases.....lb	.40	.42
			Parsley Seed, bags.....lb	.08½	.09	Powdered, 200 lb bbls.....lb	.46	.48
						Rosemary Leaves, bales.....lb	.04½	.05

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Rosemary Flowers, cases bales...lb	.28	: .30	Snake Root, Canada natural bags...lb	.32	: .33	Tragacanth Gum, No. 1, ribbon, 200 lb ca.lb	1.70	: 1.75
Rose Petals, pale ....lb	.22	: .25	Stidipped, bags ....lb	...	: .55	No. 2 to No. 6, cases ....lb	1.00	: 1.50
Red ....lb	...	: .60	SOAP BARK, whole, 150-200 lb bales ....lb	.07 1/2	: .08	Powdered, 50 lb boxes ....lb	1.00	: 1.50
Rue Herb, bales ....lb	.30	: .35	Cut, 125-175 lb bags ....lb	.08	: .08 1/2	Turkish, cases ....lb	.75	: .90
SABADILLA SEED, bags ....lb	...	: .12	Crushed, 200 lb bbls. ....lb	.08 1/2	: .09	Turmeric Root, Madras bags ....lb	.09 1/2	: .09 1/2
Powder, bbls. ....lb	.16 1/2	: .17	Powdered, 200 lb bbls. ....lb	.14	: .15	Aleppy, bags ....lb	.07 1/2	: .08
Saffron Flowers, Amer. bales ....lb	1.25	: 1.30	Spearment Leaves, American bales...lb	.23	: .24	China, bags ....lb	.07	: .07 1/2
Valencia, 1 lb cans. ....lb	47.00	: 48.00	Spermaceti, blocks cases ....lb	.36	: .37	Turpentine, Venice, true 80 lb ca. ....lb	.20	: .22
Sage, Dalmatian bales ....lb	.05 1/2	: .06 1/2	Spikenard Root, bags ....lb	.15	: .16	Artificial, 80 lb cases ....lb	.14	: .15
Greek, bales ....lb	.03 1/2	: .04	Spruce Gum, boxes ....lb	1.00	: 1.50	Spirits, see Naval Stores		
Spanish, bales ....lb	.03	: .03 1/2	Squaw Vine, bales ....lb	...	: .17	UNICORN ROOT, false, see Helonias		
Sandalwood, chips bags ....lb	...	: .30	Squill Root, white bags ....lb	...	: .04	True, see Aletris		
Ground, bags ....lb	...	: .35	Stavesacre Seed, bags ....lb	.23	: .29	Uva Ursi Leaves, bales ....lb	.05 1/2	: .06 1/2
Randara Gum, 300 lb bbls. ....lb	.23	: .25	Stillingia Root, bags ....lb	.09 1/2	: .10	VALERIAN ROOT, Belgian bags ....lb	.11 1/2	: .12
Sarsaparilla, Honduras, bales ....lb	...	: .55	Stone Root, bags ....lb	.09	: .10	Vanilla Beans Mex. whole cases...lb	7.50	: 10.00
Mexican, bales ....lb	.26	: .27	Storax, liquid artif. ....lb	.70	: .75	Cuts, cases ....lb	6.50	: 7.00
Sassafras Bark, ordinary bales...lb	.12	: .14	Gen. USP ....lb	.90	: 1.00	Bourbon, cases ....lb	3.50	: 4.00
Select, bales ....lb	.22	: .23	St. Ignatius Beans, bags ....lb	.23	: .23	South American, cases ....lb	6.00	: 6.50
Savory Leaves, bales ....lb	.09 1/2	: .10	St. John's Bread, bags ....lb	.04	: .06	Tahiti, yellow label cases ....lb	2.10	: 2.25
Saw Palmetto Berries, bags ....lb	.13	: .13	Stramonium Leaves, bales ....lb	.07	: .07 1/2	Green Label, cases ....lb	2.10	: 2.25
Scammony Root, boxes ....lb	1.15	: 1.25	Stramonium Seed, bags ....lb	.12	: .13	Violet Flowers, bags ....lb	.65	: .70
Scammony Root, bags ....lb	.06 1/2	: .07	Strophanthus Seed, Hispidus ....lb	...	: .04	Wahoo Bark, of root bags ....lb	1.00	: 1.10
Senega Root, bags ....lb	.74	: .75	Kombe, bags ....lb	.30	: .35	Of Tree, bags ....lb	.40	: .42
SENNA, Alex, 150 lb cases ....lb	.30	: .31	Sunflower Seed, domestic bags ....lb	.07	: .07 1/2	White Pine Bark, rounded, bags...lb	.06	: .07
Half Leaf, 350 lb cases ....lb	.18	: .21	South American, bags ....lb	.06 1/2	: .07	White Poplar Bark, bags ....lb	.04	: .05
Siftings, 400 lb bales ....lb	.09	: .09 1/2	TAGALDER BARK, bags ....lb	...	: .05	Wild Cherry Bark, thin green		
Powdered, 200 lb bbls. ....lb	.12	: .13	Tamarinds, bbls. ....lb	...	: .05 1/2	Rosed, bales ....lb	.10	: .12
Timevelly, job, 350 lb bales ....lb	.11	: .13	Keps per bag	3.25	: 3.50	Thick Rosed, bales ....lb	.07	: .07 1/2
Grinding, 350 lb bales ....lb	.05	: .08	Tansy Herb, bales ....lb	.14	: .15	Thin Natural, bales ....lb	.09	: .09 1/2
Powdered, 200 lb bbls. ....lb	.08	: .08 1/2	Tar, Barbadoes, 50 gal. bbls. gal.	1.60	: 1.75	Thick Natural, bales ....lb	.04 1/2	: .05
Pods, 350 lb bales ....lb	.06	: .06 1/2	Thus Gum, 280 lb bbls. ....lb	...	: .05 1/2	Willow, bark bags ....lb	...	: .06
Serpentaria Root, bags ....lb	.90	: .92	Thyme, Spanish bales ....lb	...	: .08	White, bags ....lb	...	: .15
Shellac, T.N., bags ....lb	.77	: .78	French, bales ....lb	...	: .11	Witch Hazel Bark, bags ....lb	...	: .06
Superfine Orange, bags ....lb	.89	: .90	TILLIA .See Linden			Witch Hazel Leaves, bales ....lb	...	: .07 1/2
D. C., bags ....lb	...	: 1.00	Tolu Balsam, see Balsams			Worm Seed, American bags ....lb	.07 1/2	: .09
V. S. O., cases ....lb	...	: .95	Tonga Bark, bags ....lb	.30	: .31	Levant bags ....lb	3.75	: 4.00
Pwd. reg., 350 lb bbls. ....lb	.88	: .90	Tonka Beans, Angostura, cases...lb	2.00	: 2.10	Wormwood Herb, imported bales...lb	...	: .10
Regular Bleached, 350 lb bbls. ....lb	...	: .90	Para, cases ....lb	.80	: .85	Yacca Gum, red. ....lb	.04	: .04 1/2
Bone, Dry, 350 lb bbls. ....lb	...	: .92	Surinam, cases ....lb	.85	: .95	Ground ....lb	.05 1/2	: .06 1/2
Simaruba Bark, bales ....lb	.11	: .12				YELLOW DOCK ROOT, bags ....lb	.13	: .15
Sideritis Herb, cut bags ....lb	...	: .23				Yellow Parilla Root, bags ....lb	.18	: .17
Skullcap Leaves, baleslb	...	: .38				Yerba Santa, bagslb	.10	: .11
Sloe Berries, bagslb	.03	: .04				Zedoary Root, bagslb	.10	: .11

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Bitter ff PA 5 lb bot.	D	3.75	: 4.00
Artificial (See Benzaldehyde—Chemicals)			
Sweet, 5 lb cans.	D	.35	: .40
Peach Kernel, 55 lb tins.	D	.25	: .37
Apricot, see Peach Kernel			
Amber, crude 25 lb tins.	D	.85	: .88
Rectified, 25 lb tins.	D	.90	: 1.00
Angelica Root, 1 lb bot.	D	38.00	: 39.00
Seed, 1 lb bot.	D	36.00	: 39.00
ANISE, Tech., 66 lb case.	D	.45	: .50
USP 50 lb tins.	D	.52½	: .55
Bay, 25 lb tins.	D	2.50	: 2.60
Bergamot, USP, 25 lb coppers.	D	2.50	: 2.60
Artificial, 25 lb cans.	D	2.00	: 2.25
Birch Tar, rect. 5 lb bot.	D	1.10	: 1.15
Crude, 50 lb tins.	D	.60	: .65
Bois de Rose, 25 lb tins.	D	2.35	: 2.55
Cade, USP, 25 lb tins.	D	.45	: .50
USP, 5 lb bot.	D	.55	: .60
Cajuput, native, 50 lb tins.	D	.80	: .85
Calamus, 5 lb bot.	D	4.25	: 4.75
Camphor, heavy, 1000 lb drums.	D	.11½	: .12
Japanese, white, 72 lb cases.	D	.13½	: .15
White, 1000 lb drums.	D	.13	: .13½
Camphor, Native 25 lb tins.	D	2.25	: 2.50
Rectified, 25 lb tins.	D	2.50	: 2.75
Caraway, USP.	D	5.25	: 6.00
Cardamom, USP, 1 lb bot.	D	20.00	: 22.00
Carrot, 5 lb bot.	D	8.50	: 9.00
CASSIA, 75-80 p.c. 66 lb cases.	D	1.95	: 2.10
Redistilled, USP, 50 lb cans.	D	2.50	: 2.75
Cedar Leaf, 50 lb tins.	D	.85	: 1.00
Cedar Wood, light 1000 lb drums.	D	.25	: .36
Celery, 1 lb bot.	D	8.50	: 9.00
Cinnamon, Ceylon 1 lb bot.	D	12.00	: 15.00
Leaf, 5 lb bot.	D	...	: 2.00
CITRONELLA, Ceylon, 1000 lb drs.	D	.71	: .73
50 lb tins.	D	.73	: .75
Java, 400 lb drums.	D	...	: .85
50 lb tins.	D	...	: .87½
Cloves, USP, 50 lb cans.	D	1.80	: 1.90
6 lb bot.	D	1.90	: 2.00
Copaiba, USP, 50 lb tins.	D	.35	: .40
Coriander, USP, 1 lb bot.	D	21.00	: 22.50
Croton, USP, 25 lb tins.	D	1.00	: 1.10
Cubeb, USP, 5 lb bot.	D	6.00	: 6.25
Cumin, 1 lb bot.	D	15.00	: 20.00
Dill, 1 lb bot.	D	4.75	: 5.00
Erigeron, 20 lb tins.	D	.85	: .90
EUCALYPTUS, Austral. USP			
50 lb cs.	D	.46	: .48½
500 lb drums.	D	...	: .46
Fennel USP, 25 lb tins.	D	1.10	: 1.25
Geranium, Algerian, 25 lb tins.	D	8.00	: 8.50
Sourbon, 25 lb tins.	D	6.50	: 6.75
Turkish, 25 lb tins.	D	...	: 4.50
Ginger, 1 lb bot.	D	5.75	: 6.00
Gingergrass, 28 lb tins.	D	2.75	: 3.00
Hemlock, 50 lb cans.	D	...	: 1.45
Juniper Berries, USP, 25 lb tins.	D	1.25	: 1.40
Wood, 50 lb tins.	D	.50	: .60
Lavender, USP, 28 lb tins.	D	2.75	: 3.50
Spike, Spanish 50 lb cans.	D	.70	: .80
LEMON, Ital. USP, 25 lb tins.	D	.72½	: .82½
American, USP, 25 lb tins.	D	.80	: .85
Lemongrass, native, 50 lb cans.	D	.80	: .85
Limes, express 25 lb tins.	D	1.75	: 1.80
Distilled, 25 lb tins.	D	.65	: .70
Linaloe, Mex. 80 lb cases.	D	2.15	: 2.35
Mace, distilled, 50 lb tins.	D	...	: .95
Mirbane, ref., see Ar. Chemicals			
Mustard, USP, 1 lb bot.	D	...	: 17.00
Artif., USP, 5 lb bot.	D	2.75	: 2.80
Neroli, Bigarade, ¼ and 1 lb bot.	D	75.00	: 100.00
Petale, 1 lb bot.	D	90.00	: 115.00
Artificial, 1 lb bot.	D	10.00	: 25.00
Nutmeg, USP, 25 lb tins.	D	...	: .95
Orange, bitter, 25 lb tins.	D	2.25	: 2.35
Sweet, W. Ind., 25 lb tins.	D	2.50	: 2.60
Italian, 25 lb cop.	D	2.75	: 2.85
American, 25 lb tins.	D	2.85	: 2.95
Origanum, 50 lb cans.	D	...	: .35
Parsley, 1 lb bot.	D	3.50	: 4.00
Patchouli, 5 lb bot.	D	8.00	: 8.50
Pennyroyal, dom 25 lb tins.	D	1.95	: 2.25
Imported, 25 lb tins.	D	1.65	: 1.75
PEPPERMINT, nat. 60 lb cases.	D	2.75	: 2.85
Redist., USP, 60 lb cases.	D	2.95	: 3.05
Petit Grain, S. Am. 25 lb tins.	D	1.55	: 1.65
French, 1 lb bot.	D	6.50	: 7.00
Pimento, 25 lb tins.	D	1.90	: 1.95
Pinus Sylvestris, 25 lb tins.	D	...	: 1.75
Pumilio, USP 25 lb tins.	D	...	: 2.75
Rose, Fr., 8, 16 & 32 oz pags.	D	...	: 9.00
Bulg., 8, 16 & 32 oz pags.	D	5.50	: 8.00
Artificial, 1 lb bot.	D	3.00	: 3.00
Roemary, USP, 27½ lb tins.	D	.45	: .48
1000 lb drums.	D	...	: .42½
Tech., 27½ lb tins.	D	.40	: .45
Rue, 1 lb bot.	D	...	: 4.25
Sandalwood, E. Ind. USP, 76 lb cases.	D	7.85	: 8.00
W. Indian, (Amryia) 25 lb tins.	D	3.75	: 3.90
Sassafras, USP, 50 lb cans.	D	.95	: 1.00
Artificial, 63 lb cans, 1000 lb drs.	D	.42	: .45
Savin, 5 lb tins.	D	3.25	: 3.50
Spearmin, USP 60 lb cans.	D	2.40	: 2.50
Spruce, 50 lb tins.	D	...	: 1.45
Tansy Amer., 20 lb tins.	D	1.50	: 3.00
Tar, 50 gal. bbls.	D	.24	: .25
Refined, USP 25 lb tins.	D	...	: ...
Thyme, red, USP 25 lb tins.	D	1.00	: 1.10
White, USP 25 lb tins.	D	1.10	: 1.15
Crude, 110 lb drums.	D	.85	: .90
Vetiver, Bourbon 1 lb bot.	D	5.50	: 6.00
Java, 1 lb bot.	D	22.00	: 24.00
Wine, heavy 1 lb bot.	D	...	: 2.75
WINTERGREEN,			
Sweet beh, 25 lb tins.	D	2.00	: 3.00
Cantharid, true 25 lb tins.	D	4.00	: 7.00
Synthetic USP, 50 lb cases.	D	...	: .62
Wormseed Balt., USP, 25 lb tins.	D	4.75	: 4.85
Wormwood, dom, 25 lb tins.	D	6.50	: 7.00
Ylang Ylang, Bourbon 10 lb tins.	D	6.50	: 7.00
Manila, 1 lb bot.	D	30.00	: 40.00
Artificial, 1 lb bot.	D	10.00	: 12.00
OLEORESINS			
Aspidium, USP 1 lb bot.	D	2.75	: 3.00
Capsicum, USP, 5 lb bot.	D	2.50	: 2.75
Cubeb, USP, 1 lb bot.	D	4.75	: 5.00
Ginger, 5 lb bot.	D	3.00	: 3.10
Malefern, See Aspidium			
Oris, 1 lb bot.	D	...	: 18.00
Pepper, black, USP, 1 lb bot.	D	3.50	: 4.00
Vanilla, 1 lb bot.	D	8.00	: 8.50

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Anethol, 25 lb bot.....	1.60	: 2.00
Borneol, 1 lb bot.....		: 2.50
Citronellal, 1 lb bot.....	2.00	: 2.25
CITRAL, 25 lb cans.....	2.75	: 3.00
EUCALYPTOL, USP, 25 lb cans.....	.80	: .85
Eugenol, USP, 25 lb cans.....	2.85	: 3.25
Geraniol, Domestic, 50 lb cans.....	2.75	: 3.00
Imported, 5 lb bot.....	2.75	: 3.00
iso-Eugenol, 1 lb bot.....	4.25	: 4.50
Imported.....	6.50	: 7.00
Linalool, 5 lb bot.....	7.00	: 7.25
MENTHOL, 60 lb cases.....		: 8.20
Less cases, 5 lb cans.....	8.40	: 8.50
Rhodinol, 1 lb bot.....	15.00	: 20.00
SAFROL, 60 lb cans.....	.55	: .57
Thymol, USP, 10 lb cans.....	3.25	: 3.50

SYNTHETIC AROMATICS		
Acetaldehyde, 50% sol pure, 5 lb bot. lb	1.75	: 2.00
Acetophenone CP, 1 lb bot.....	4.00	: 4.25
Amyl Acetate, pure, 5 gal cans. gal	6.00	: 7.00
Amyl Butyrate, 1 lb bot.....	2.00	: 2.10
Amyl Formate, 1 lb bot.....	1.75	: 2.00
AMYL SALICYLATE, 100 lb chys. lb	1.45	: 1.60
Anisic Aldehyde, 1 lb bot.....	3.40	: 4.00
BENZALDEHYDE, USP, 40 lb chys lb	1.40	: 1.50
FFC, 40 lb chys.....	1.60	: 1.70
Benzole Ether, See Ethyl Benzate		
Benzyl Acetate, 100 lb chys.....	1.25	: 1.40
Benzyl Alcohol, 5 lb bot.....	1.50	: 1.75
BENZYL BENZOATE, 5 lb bot.....	1.60	: 1.75
Medicinal FFC.....	1.75	: 1.85
Benzyl Formate, 1 lb bot.....	2.50	: 3.00
Bromstyrol, 25 lb keg.....	4.00	: 4.25
Butyric Ether, See Ethyl Butyrate		
Cinnamic Acid, 5 lb cans.....	3.00	: 3.25

Cinnamic Alcohol, liquid 1 lb bot. lb	10.00	: 12.00
Crystallizable.....	12.00	: 15.00
Cinnamic Aldehyde, 1 lb bot.....	3.20	: 3.50
CITRONELLOL, 1 lb bot.....	8.00	: 14.00
COUNMARIN, 25 lb cans.....	4.50	: 4.75
DIETHYL PHTHALATE, 25 lb cans lb	.65	: .75
Diphenylolide, 25 lb tins.....	.85	: .90
Ethyl Acetate, pure, 5 lb bot.....	.45	: .50
Ethyl Benzate, 5 lb bot.....	1.85	: 2.00
Ethyl Butyrate, 5 lb bot.....	2.00	: 2.25
Ethyl Cinnamate, 1 lb bot.....	4.50	: 5.00
Ethyl Formate, 5 lb bot.....	.95	: 1.00
Ethyl Valerate, 5 lb bot.....	4.50	: 4.75
Formic Ether, See Ethyl Formate		
Geranyl Acetate, 1 lb bot.....	4.25	: 4.75
Heliotropin, dom., 10 lb bot.....	1.75	: 2.00
Imported.....	1.75	: 2.75
Indol, CP, 10 lb bot.....	8.50	: 9.00
Ionone, 1 lb bot.....	5.00	: 9.00
Alpha.....	10.00	: 12.00
Beta.....	9.00	: 11.00
Methyl.....	12.50	: 15.00
Linalyl Acetate, 1 lb bot.....	7.00	: 10.00
Linalyl Benzate, 1 lb bot.....	13.00	: 14.00
METHYL ANTHRANILATE dom., 1 lb bot.....	2.25	: 2.50
Imported.....	2.00	: 3.50
Methyl Cinnamate, 1 lb bot.....	4.00	: 4.50
Methyl Paracresol, 1 lb bot.....	8.00	: 9.00
METHYL SALICYLATE, USP 500 lb drums.....		: .60
50 lb cases.....		: .62
Second Hands.....		: .55
Mirbane, rect. 1000 lb drums.....	12 1/2	: 14
Musk Ambrette, 1 lb cans.....	14.50	: 16.50
Musk Ketone, 1 lb cans.....	13.00	: 14.00
Musk Xylene, 5 lb cans.....	2.90	: 3.15
Nerolin, 1 lb cans.....	1.75	: 2.00
Phenylacetaldehyde, 85 p.c. 1 lb bot. lb	9.00	: 12.50
50 p.c.....	6.00	: 8.00
Phenylacetic Acid, 1 lb bot.....	3.00	: 4.00
PHENYLETHYLALCOHOL dom., 1 lb bot.....	7.50	: 9.00
Imported.....	9.50	: 12.00

Phenylpropylalcohol, 1 lb bot.....	15.00	: 16.00
TERPINEOL, CP, 1000 lb drums. lb	.53	: .55
Cans 50 lb.....	.58	: .60
Imported, 25 lb cans.....	1.00	: 1.25
Terpinyl Acetate, 25 lb cans.....	1.65	: 1.85
VANILLIN, USP, 400 oz cans. oz	.40	: .40 1/2
Cans, 16 oz., 80 oz.....	.40 1/2	: .41 1/2
Valerianic Ether, See Ethyl Valerate		
Yara Yara, 1 lb cans.....	1.75	: 2.00

PERFUMERS' SUNDRIES		
Almond Meal, 25 lb cans.....	.28	: .30
Ambergris, black, bxs.....		: 8.00
Ambergris, gray, bxs.....		: 28.00
Balsam Copaiba, Para, 80 lb cases lb	.23	: .24
South American, 80 lb cases.....	.28	: .29
Balsam Peru, 60 lb cans.....	1.80	: 1.85
Balsam Tolu, 90 lb cases.....	.82 1/2	: .85
Benzoin Gum, Siam, bxs.....	1.10	: 1.15
Castoreum, 1 lb bot.....	4.00	: 4.50
Chalk, precip. light, 175 lb bbls. lb	.04 1/2	: .05
Cherry Laurel Water, 5 gal cans. gal	1.15	: 1.25
Civet Abyssin, horns.....	2.75	: 3.75
Labdanum, 5 lb bot.....		: 8.00
Lanolin hydrous, 350 lb bbls.....	.21	: .22
Anhydrous, 350 lb bbls.....	.23	: .24
Musk pods, Cabardine, tins.....	16.00	: 17.00
Tonquin, tins.....	22.00	: 25.00
Grains, Cabardine, tins.....	25.00	: 26.00
Tonquin, tins.....	35.00	: 38.00
Synthetic, See Aromatic Chemicals		
Orris Rt. Flor., powd. bbls.....	.09	: .11
Verona, bbls.....	.08	: .09
Petrolatum, snow white, 350 lb bbls lb		: 12 1/2
Light Amber, 350 lb bbls.....	.04	: .04 1/2
Rice Starch, 140 lb bgs.....	.09	: .10
Rose Water, 5 gal chys.....	.90	: 1.10
Sandalwood chips, powd., bags.....	.30	: .35
Saponin, 5 lb tins.....	1.25	: 1.50
Talc Italian, 220 lb bgs.....	42.00	: 55.00
Talc French, 220 lb bags.....	32.00	: 45.00
Talc, domestic ref., 100 lb bags.....	20.00	: 30.00



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CASEIN—24 cs., N. Y. Trust Co., Southampton; 388 csks., Martin Cantine Co., Bordeaux; 84 csks., Monite Waterproof Glue Co., Bordeaux; 200 csks., J. A. Bird & Co.,

Bordeaux; 100 csks., A. Hurst & Co., Bordeaux
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CHEMICALS—105 cs., Order, Hamburg; 1 csc., Sagamore Chem. Co., Hamburg
CITRATE—400 cs., East River Nat. Bank, Genoa
CLAY—30 csks., J. Goebel & Co., Bremen; 200 csks., H. A. Robinson Co., London
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COLORS—45 bbls., A. Murphy & Co., Hamburg; 10 cs., Order, Southampton; 4 csks., Chem. Nat. Bank, Antwerp; 3 cs., Schneider & Co., Antwerp; 3 cs., Nat. Amer. Bank, Antwerp; 9 csks., Kuttroff Pickhardt Co., Hamburg; 11 csks., Franklin Import Co., Hamburg; 3 csks., Irving Nat. Bank, Havre; 8 bbls., A. Klipstein & Co., Christiania; 9 bbls., Amer. Aniline Prod. Co., Genoa; 4 bbls., Amer. Exch. Nat. Bank, Genoa; 14 bbls., Irving Nat. Bank, Genoa; 22 pkgs., Order, Genoa; 3 bbls., E. P. Stockhausen, Hamburg; 10 bbls., Westewald & Fiester Genoa; 21 bbls., Organic Prod. Co., Genoa
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ETHYL CHLORIDE—5 csks., Sagamore Chem. Co., Hamburg
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GLYCERIN—50 drs., Order, Sydney
GREASE—50 bbls., Hummel & Robinson, Hull; 160 cs., Amer. Trust Co., Antwerp
GUM—32 cs., A. M. Karaghensian, Bombay; 40 cs., Order, Bombay; 375 cs., Balfour Willamsen Co., Calcutta; **Arabic**, 20 cs., Order, Bombay; **Benzoin**, 3 cs., Order, London; **Chicle**, 219 bgs., Chicle Dev. Co., Belize; 240 bgs., A. Ward, Belize; 440 bgs., Battery



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NUX VOMICA—115 bgs., Order, Bombay; 185 bgs., Volkart Bros., Madras; 123 bgs., Volkart Bros., Coconada

OCHRE—10 csks., J. L. Smith & Co., Hull

OILS—Coconut, 710 tons, Order, Manila; **Cod**, 225 csks., 1 bbl., R. Badcock & Co., St. Johns; 200 bbls., Order, Hull; **Codliver**, 80 bbls., T. Nevins, Christiania; **Fusel**, 11 drs., Order, Dunkirk; 4 csks., Guaranty Trust Co., Bordeaux; **Ground Nut**, 195 bbls., E. F. Drew & Co., Hull; 400 bbls., Order, Hull; **Haarlem**, 4 cs., Travis & Parks, Rotterdam; **Olive**, 400 cs., Sausage Mfg. Co., Genoa; 525 cs., 10 bbls., P. Pastene Co., Genoa; 100 cs., S. Romano, Genoa; 100 cs., S. D'Asaro & Co., Genoa; 100 cs., A. German & Son, Genoa; 100 cs., A. Ferrantino, Genoa; 100 cs., P. De Vivo, Genoa; 50 cs., A. D'Auria, Genoa; 100 cs., Reliable Imp. Co., Genoa; 65 cs., F. Pepe, Genoa; 175 cs., J. Solari & Co., Genoa; 25 cs., G. Piscani, Genoa; 200 cs., W. Williams, Genoa; 225 cs., Von Bremen Asche & Co., Genoa; 517 cs., Oceano Shpg. Co., Genoa; 4,003 cs., Order, Genoa; 137 cs., Columbo Co., Genoa; 100 cs., L. Giacchetto, Palermo; 15 csks., B. Ignazio, Palermo; 31 csks., P. Manzella, Palermo; 397 cs., 36 csks., Order, Palermo; 164 cs., Order, Palermo; 100 cs., M. P. Tribuno, Genoa; 200 cs., F. Bertoli & Co., Genoa; 200 cs., Latorraccia Bros., Genoa; 100 cs., Aprea Bros., Genoa; 200 cs., Cartagena & Mavro, Genoa; 100 cs., G. Rossano, Genoa; 150 cs., Parodi Ermino Co., Genoa; 35 csks., E. Penna, Genoa; 260 csks., J. Garneau, Marseilles; 15 cs., Order, Marseilles; 200 cs., F. H. Leggett & Co., Bordeaux; 12 bbls., S. Francavilla, Naples; 50 cs., P. Albano, Naples; 30 cs., G. Martignetti, Naples; 18 cs., Order, Naples; 13 bbls., C. La Scala, Messina; 10 bbls., L. Guattrochi, Messina; 10 csks., S. Barrilla, Messina; 61 cs., R. A. Gallo, Catania; 4,003 cs., Order, Genoa; **Sulfur**, **Olive**, 350 bbls., Banca Comm. Italo, Milazzo; 300 bbls., Order, Palermo; 100 bbls., Order, Palermo; 200 bbls., Brown Bros. & Co., Palermo; 100 bbls., Leghorn Trdg. Co., Messina; 100 bbls., Order, Messina; 100 bbls., Mech. & Metals Nat. Bank, Catania; 300 bbls., Fourth St. Nat. Bank, Catania; 200 bbls., Banco Comm. Italo, Naples; 200 bbls., Brown Bros. & Co., Naples; **Palm**, 100 bbls., E. F. Drew & Co., Hull; 100 bbls., Order, Hull; 8 csks., Order, Liverpool; **Rape**, 200 bbls., Core & Herbert, Hull; 250 bbls., Vacuum Oil Co., Hull; 225 bbls., Nat. City Bank, Hull; 329 bbls., Order, Hull

OILS, ESSENTIAL—3 cs., Dodge & Olcott, Bremen; 11 cs., Dodge & Olcott, London; 20 csks., Sharpes Spec. Co., Havre; 2 cs., Morana, Inc., Havre; 1 cse., Hammel Reglander Co., Havre; 3 cs., Guaranty Trust Co., Havre; 33 cs., M. Levy, Havre; **Bay**, 5 cs., Royal Bank, Montserrat; 4 bbls., R. Moelhausen, Guadeloupe; **Bergamot**, 100 cs., Heidelberg Ickelheimer Co., Messina; 65 cs., Brown Bros. & Co., Messina; **Citronella**, 6 drs., Order, Colombo; **Juniper**, 1 csk., Chem. Nat. Bank, Hamburg; **Lemon**, 68 cs., Brown Bros. & Co., Messina; **Lime**, 2 cs., R. Desvernine, Martinique; **Orange**, 5 cs., F. S. Maynard & Son, Dominica; 38 cs., Colonial Bank, Kingston; 10 cs., Order, Jamaica; 25 cs., Heidelberg Ickelheimer Co., Messina; **Rhodium**, 1 cse., G. W. Helme & Co., London; **Rose**, 2 pots, Order, Bombay; 8 csks., Guaranty Trust Co., St. Nazaire; **Sandalwood**, 2 cs., E. Fougere & Co., London; 14 cs., Order, London; **Vetiver**, 4 csks., A. J. Marcus, Bordeaux

PLUMBAGO—100 bbls., H. W. Peabody & Co., Calcutta; 308 bbls., First Federal Banking Corp., Calcutta; 564 bbls., H. P. Winter & Co., Colombo

POTASSIUM SALTS—Alum, 200 bbls., Weisenthal & Co., Hamburg; **Caustic**, 50 csks., Mallinckrodt Chem. Works, Gothenburg; 82 drs., Order, Hamburg; **Chlorate**, 1,000 csks., Mech. & Metals Nat. Bank, Hamburg; **Permanganate**, 21 drs., Bengol Trdg. Co., Hamburg

PUMICE STONE—300 bgs., C. B. Chrystal, Canneto Lipari; 5,918 bgs., R. J. Waddell & Co., Canneto Lipari; 120 bgs., J. Morton, Canneto Lipari; 160 bgs., Order, Canneto Lipari

QUICKSILVER—500 flasks, Order, Leghorn

ROOTS—10 bls., S. B. Penick & Co., Hamburg; 72 bgs., First Nat. Bank Minn., Hamburg; 21 bgs., Peek & Velsor, London; 9 bls., S. B. Penick & Co., Hamburg; **Broom**, 17 bls., Order, Vera Cruz; 23 bls., H. Triest & Co., Vera Cruz; **Dandelion**, 16 bls., Order, Hamburg; **Ipecac**, 5 bls., Order, London; **Jalap**, 2 bgs., H. Triest Co., Tampico;

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Phenol coefficients 2 to 20. Rideal-Walker Test. Produce white emulsion free from deposit. Phenol coefficients guaranteed.

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Licorice, 275 bgs., Order, Catania; **Orris**, 35 bgs., Order, Leghorn; **Yellow Dock**, 24 bgs., Brown Bros. & Co., London
ROSIN—50 csks., Eastman Kodak Co., Bordeaux
SAFFRON—11 csks., Order, Vera Cruz; 2 cs., G. W. Sheldon & Co., Havre; 1 csc., D. Klein, Havre
SAL AMMONIAC—46 csks., Hummel & Robinson, Hamburg; 9 csks., Weisenthal & Co., Hamburg
SALT—1,680 csks., W. A. Hazard & Co., Liverpool
SEAWEED—20 bls., J. Schoenegan, Havre
SEED—9 bgs., S. B. Penick & Co., Hamburg; Cardamom, 13 cs., C. B. Richard & Co., London; 16 cs., Order, London; **Castor**, 1,426 bgs., Volkart Bros., Bombay; 2,800 bgs., Order, Bombay; **Cumin**, 100 bgs., Intern. Bkg. Corp., Bombay; 233 bgs., Standard Bank of So. Africa, Bombay; 175 bgs., Order, Bombay; **Dill**, 150 bgs., Order, Bombay; **Fennel**, 295 bgs., Order, Bombay; **Flax**, 51,750 bgs., Amer. Linseed Co., Rosario; **Rape**, 117 bgs., Order, Hamburg; **Sesame**, 350 bgs., Balfour Williamson & Co., Hankow
SHELLAC—130 bgs., Phila. Nat. Bank, Calcutta; 100 bgs., London & Liverpool Bank, Calcutta; 100 bgs., Arbuthnot Latham Co., Calcutta; 500 bgs., Order, Calcutta; 100 bgs., Order, London; 73 bgs., Cont'l Comm. Nat. Bank, Calcutta; 219 bgs., 100 cs., Irving Nat. Bank, Calcutta; 290 pkgs., Lee Higgin-

son & Co., Calcutta; 52 bgs., First Nat. Bank Boston, Calcutta; 100 bgs., London & Liverpool Bank, Calcutta; 938 bgs., Order, Calcutta; 417 pkgs., Order, Antwerp; **Garnet**, 100 cs., Order, Calcutta; 100 bgs., Brown Bros. & Co., Calcutta; 5 bgs., Order, Calcutta; **Refuse**, 1,625 bgs., Order, Calcutta; **Seed**, 62 bgs., Order, Calcutta; 10 cs., Order, London; **Sticklac**, 141 bgs., Order, Karachi
SILVER—Sulfide, 10 cs., Goldsmith & Co., South Pac. Ports
SILVER SALT—23 csks., A. V. Berner & Co., Liverpool
SODIUM SALTS—38 drs., Weisenthal & Co., Hamburg; **Caustic**, 10 cs., Mallinckrodt Chem. Wks., Gothenburg; **Chlorate**, 203 cs., Weisenthal & Co., Genoa; **Cyanide**, 112 cs., Asia Bkg. Corp., Havre; **Hyposulfite**, 82 drs., Order, Hamburg; **Nitrate**, 28,812 bgs., Wessel Duval & Co., Iquique; 20,020 bgs., Wessel Duval & Co., Antofagasta; 37,617 bgs., Wessel Duval & Co., Caletto; 5,667 bgs., W. R. Grace & Co., Antofagasta; 11,286 bgs., W. R. Grace & Co., Iquique; 500 csks., Knitroff Pickhardt Co., Hamburg; 29 csks., Order, Hamburg; **Perborate**, 31 csks., Blackburn Trdg. Corp., Hamburg; **Silicofluoride**, 101 bgs., Order, Hamburg; **Sulfide**, 85 bbls., Weisenthal & Co., Hamburg
SPICES—**Annatto**, 470 bgs., Order, Jamaica; **Chillies**, 331 bbls., Mech. & Metals Nat. Bank, Bombay; **Cinnamon**, 250 bls., Volkart Bros., Coconada; **Ginger**, 41 bgs., Canadian Bank of Commerce, Kingston; 160 bgs., Order, London; 2 bgs., Order, Jamaica; 100

bgs., W. J. Bush & Co., London; **Mustard**, 684 bgs., R. F. Downing & Co., London; 279 csks., A. Joensson & Co., London; **Mustard Dress**, 300 bgs., J. & J. Colman, London; **Pepper**, 140 bgs., Van Loan & Co., Singapore; 20 bgs., Order, London
SPONGES—44 bls., Order, Havana; 40 bls., Amer. Sponge & Chamois Co., Havana; 25 bls., A. Isaacs, Havana; 56 bls., J. H. Rhodes, Havana; 93 bls., Lasker & Bernstein, Nassau; 86 bls., Order, Nassau; 9 cs., Brodsky & Sovak, Hamburg; 51 bls., Amer. Sponge & Chamois Co., Nassau; 15 bls., Rae & McNaughton, Nassau
TALC—200 bgs., C. Mathien, Genoa
TAPIOCA FLOUR—105 bgs., Order, Liverpool
TARTAR—16 bgs., Nat. City Bank, Valparaiso; 53 csks., Tartar Chem. Works, Naples
UMBER—18 csks., L. H. Butcher & Co., Hull; 35 csks., S. L. Libby & Co., Hull
VANILLA BEANS—52 cs., E. Lough, Guadeloupe; 2 cs., Middleton & Co., Martinique
WAX—Bees, 50 cs., Hummel & Robinson, Hamburg; 86 bgs., D. Steengrafe, Valparaiso; 40 bgs., Order, Havana; **Carnauba**, 689 bgs., Nat. City Bank, Tutuya; 56 bgs., Nat. Park Bank, Tutuya; **Paraffin**, 800 bgs., Asiatic Petroleum Co., London
WHITING—3,930 bgs., Taintor Trdg. Co., Dunkirk
WOOD FLOUR—3,000 bgs., B. L. Soberski, Christiania
ZINC—Resinate, 10 csks., Order, London

The Oxoweld Acetylene Co. has moved from 1077 Mission st., San Francisco, to a new building at 1050 Mission st.

The Davis Brothers Co., Denver, Colo., has purchased two buildings at 15th and Wynkoop sts., Denver, to provide for its expanding business.

Charles Mathieu, importer of Italian talcs and graphites, has moved to larger quarters at 55 Broadway, New York, new telephone numbers Whitehall 1190-1191.

After investigation into the case of the Sizz Chemical Co., of St. Louis, the Federal Trade Commission found that the concern advertised a cleansing powder manufactured by it as containing no alkali, when as a matter of fact such powder contained a substantial percentage of alkali. The Commission also found that respondents claimed and demonstrated that their powder removed iodine stains from cloth whereas as a matter of fact iodine can be removed from cloth by the use of hot water only.

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Odd and surplus lots of Chemicals, Drugs, Oils, Coal Tar Products and Patent Medicines. We purchase outright for cash. A. A. Arditti & Co., 505 Broome St., New York City.

Party thoroughly familiar with chemicals ready to associate with established chemical firm, jobbers or manufacturers, where active service and additional capital is required. Please state particulars as proposition must stand close investigation. Box 334, DRUG & CHEMICAL MARKETS.

SMALL PLANT WANTED—Western manufacturer wants to secure small building in Metropolitan district, Long Island City, New Jersey, or other near-by location. Suitable for dextrine manufacture. Railroad siding. Trucking distance Manhattan and Brooklyn. Box 327, DRUG & CHEMICAL MARKETS.

SALESMEN—Chemical Engineer desires contact with firms in manufacturing difficulties. Have you a customer with a problem? Put me in touch with him to our mutual advantage. Box 338, DRUG & CHEMICAL MARKETS.

DRUGS AND CHEMICALS

SURPLUS CHEMICALS

We will buy for cash any unused or off-grade chemicals, oils, drugs, dyes, etc. Box 342, DRUG & CHEMICAL MARKETS.

HELP WANTED

PHARMACEUTICAL SALESMAN WANTED BY LARGE IMPORTER TO COVER MANUFACTURERS AND WHOLESALERS. MUST BE THOROUGHLY EXPERIENCED IN THIS LINE BOTH FROM SELLING AND TECHNICAL STANDPOINT. IN REPLY, STATE SALARY EXPECTED, FULL PARTICULARS OF EXPERIENCE, AGE AND RELIGION. BOX 328, DRUG & CHEMICAL MARKETS.

DRUG SALESMEN to sell to medical profession; exclusive territory; liberal commission; state experience and references. Box 336, DRUG & CHEMICAL MARKETS.

DYESTUFF SALESMAN—We have an opening with a future for an experienced dye salesman who knows line and has following among New England millmen. Box 339, DRUG & CHEMICAL MARKETS.

STOCK CLERK for a large wholesale drug house, one familiar with patents and sundries. State salary and experience. Box 331, DRUG & CHEMICAL MARKETS.

HELP WANTED

WANTED by large dyestuff manufacturer, an assistant to chemist in charge of application laboratory. Good dye testing and executive ability necessary. In application state fully, education and experience and give references. Box 341, DRUG & CHEMICAL MARKETS.

INSECTICIDE SALESMEN

Manufacturer wants three or four good men who have experience in this line and real selling ability. Protected territory and liberal drawing account. Write fully in confidence to Box 330, DRUG & CHEMICAL MARKETS.

SALESMAN WANTED—Reliable chemical jobber, Christian concern, needs a young man about 21 years for the position of salesman on straight salary basis; good opportunity for the right person; previous experience unnecessary. Box 323, DRUG & CHEMICAL MARKETS.

SALESMAN WANTED FOR SYNTHETIC CHEMICALS FOR PERFUMES, SOAPS, ETC. MUST BE THOROUGHLY EXPERIENCED IN THIS LINE. IN REPLY, STATE NATURE OF EXPERIENCE, AGE AND SALARY EXPECTED. BOX 329, DRUG & CHEMICAL MARKETS.

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- ALUMINUM KETTLES**
 100—80 to 100 gal. Coppers.
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 2—26-in. Copper Baskets.
 2—36-in. Copper Baskets.
 2—36-in. Bronze Baskets.
 7—48-in. Bronze Mesh Baskets.
 1—60-in. Steel, Rubber Lined.
DRYERS
 2—No. 1 Vacuum Shelf, Devine.
 1—8 truck Hurricane.
 10—Gordon Tray and Truck Dryers.
 2—Bronze Drum Dryers.
 10—Other Vacuum Dryers.
STILLS
 1—100 gal. Badger Copper Still.
 2—Vacuum Still, 35 to 100 gals.
 7—Copper Col. Alcohol Dist. Units.
 1—400-gal. Aluminum Still.

- FILTER PRESSES**
 1—4 x 6 Oliver Filter, all iron.
 3—6 x 6 Oliver Filter.
 3—No. 150 Kelly Filter.
 1—No. 250 Kelly Filter.
 1—No. 12 Sweetland.

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 1—10-ton Fricka. 1—4-ton York.
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 A large quantity of Refrigerators from 2 to 12 tons.

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New and slightly used steel tanks in all sizes and kinds. Pressure tanks, mixing tanks, storage tanks, pump tanks, heating tanks, etc. Write for Bulletin No. 7, giving sizes and descriptions.

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SITUATIONS WANTED

SALESMAN familiar with alcohol and industrial chemical lines, who has a good record of sales and is not afraid of hard work, seeks position in Middle West territory. Address **SELLER, DRUG & CHEMICAL MARKETS.**

CHEMIST, B.S., age 26, single, with 3 1/2 years' experience as research chemist and analyst in firm manufacturing dairy products, wishes similar position with food house, or commercial laboratory. Location New York City, or vicinity. Now employed, but wishes to change for position that offers better future. Box 322, **DRUG & CHEMICAL MARKETS.**

ORGANIC CHEMIST with fourteen years experience in research and plant development, capable of directing work in the production of pharmaceuticals, synthetic medicinals, and fine organic chemicals, will demonstrate, at a reasonable salary, his ability to obtain results. Box 324, **DRUG & CHEMICAL MARKETS.**

SALESMAN—Trained chemist familiar with organic field wishes to establish connection with firm covering Metropolitan territory. Box 325, **DRUG & CHEMICAL MARKETS.**

CHEMIST—Thoroughly experienced in medicinal and fine organic chemicals available for connection with manufacturer. Box 326, **DRUG & CHEMICAL MARKETS.**

SITUATIONS WANTED

NITRO CELLULOSE MAN

Experienced chemist, manufacturer, market analyst and merchandiser. Thoroughly familiar with every phase from the raw cotton, through manufacture to successful production of nitrates, films, lacquers, leather cloth and other products. An honor graduate in chemistry and mechanics. Twelve years intensive work with leading makers. Splendid executive, exceptional references. Now employed but immediately available. Box 321, **DRUG & CHEMICAL MARKETS.**

INTERNATIONAL Sales Executive—who during past two years has personally covered South America, Australia and New Zealand, Cuba, France and Spain studying conditions and arranging sales agencies, and who has had long experience handling chemical and drug sales in United States, Canada and throughout the world will consider an engagement as sales executive with responsible firm interested in developing foreign business. Box 335, **DRUG & CHEMICAL MARKETS.**

TEXTILE CHEMIST—Technically trained man who has had nine years practical working experience in both wool and silk mills seeks a position where experience and reliability will be appreciated. Box 340, **DRUG & CHEMICAL MARKETS.**

SITUATIONS WANTED

PLANT EXECUTIVE—Advertiser is trained chemist (M. S. Cornell) who has had eleven years practical experience in chemical manufacturing. He has forceful personality and executive ability, and is able to handle men to get results. He has had experience in alkalies, varnishes, and coal-tar medicinals, with sound working knowledge of general heavy chemical processes. Available June 1st. Box 332, **DRUG & CHEMICAL MARKETS.**

The services of well informed wholesale drug man will be available after May 1st. Box 344, **DRUG & CHEMICAL MARKETS.**

PLANT EQUIPMENT

FOR SALE—500 gross 6 oz. Amber Peroxide Bottles packed 1 gross to case. Box 337, **DRUG & CHEMICAL MARKETS.**

For sale or exchange Saunders Pipe Threading Machine, Capacity 2 1/4 to 8 inches. Desire 26 inch Wooden Filter Press. Box 343, **DRUG & CHEMICAL MARKETS.**

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